Book Recommender System

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## Blog Post Inspiration and Objectives

In this blog post, I was hoping to take on the classic beginner/intermediate challenge of creating a simple Machine Learning recommendation system, imitating ones used at Big-Tech companies such as Netflix. Additionally, with so many examples online about Machine Learning movie recommendation systems, I decided to look to establish this system on another area which has always piqued my interest: books. This time I would try to make my own customized RNN if possible, using TensorFlow. With that said, let’s try to analyze and create this system with some Machine Learning:

## Data Preprocessing - Cleaning and Analytics

```{python}  
# Import needed libraries  
import numpy as np  
import pandas as pd  
import matplotlib.pyplot as plt  
%matplotlib inline  
import seaborn as sns  
color = sns.color\_palette()  
from sklearn.model\_selection import train\_test\_split  
from sklearn.metrics import average\_precision\_score, roc\_auc\_score, precision\_recall\_fscore\_support, confusion\_matrix, classification\_report  
from sklearn.metrics import mean\_squared\_error, pairwise\_distances  
from tensorflow.keras.models import Model  
from tensorflow.keras.layers import Input, Embedding, Flatten, dot  
from tensorflow.keras.optimizers import Adam  
plt.style.use("fivethirtyeight")  
```

First, we will read and display all of the initial datasets in our file system for this blog post, downloaded from Kaggle. These datasets contains loads of valuable information such as Book-ISBNS, user-ids for the (anonymous) users/reviewers, book ratings, etc.

```{python}  
# Reading and displaying all of the initial datasets  
books\_df = pd.read\_csv("datasets/Books.csv")  
ratings\_df = pd.read\_csv("datasets/Ratings.csv")  
users\_df = pd.read\_csv("datasets/Users.csv")  
```

C:\Users\andre\AppData\Local\Temp\ipykernel\_12436\2730945584.py:2: DtypeWarning: Columns (3) have mixed types. Specify dtype option on import or set low\_memory=False.  
 books\_df = pd.read\_csv("datasets/Books.csv")

For clarity on the constraints and parameters of the working datasets, I went to find high-level exploratory statistics on all of the datasets: shape, information about all of the entries, etc.

```{python}  
# Determining the shape of each of the initial datasets  
books\_df.shape, ratings\_df.shape, users\_df.shape  
```

((271360, 8), (1149780, 3), (278858, 3))

```{python}  
# Figuring out all of the columns (and their names) available for me to use in the dataset  
books\_df.columns, ratings\_df.columns, users\_df.columns  
```

(Index(['ISBN', 'Book-Title', 'Book-Author', 'Year-Of-Publication', 'Publisher',  
 'Image-URL-S', 'Image-URL-M', 'Image-URL-L'],  
 dtype='object'),  
 Index(['User-ID', 'ISBN', 'Book-Rating'], dtype='object'),  
 Index(['User-ID', 'Location', 'Age'], dtype='object'))

```{python}  
# Getting basic information about the all of the datasets  
books\_df.info(), ratings\_df.info(), users\_df.info()  
```

<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 271360 entries, 0 to 271359  
Data columns (total 8 columns):  
 # Column Non-Null Count Dtype   
--- ------ -------------- -----   
 0 ISBN 271360 non-null object  
 1 Book-Title 271360 non-null object  
 2 Book-Author 271358 non-null object  
 3 Year-Of-Publication 271360 non-null object  
 4 Publisher 271358 non-null object  
 5 Image-URL-S 271360 non-null object  
 6 Image-URL-M 271360 non-null object  
 7 Image-URL-L 271357 non-null object  
dtypes: object(8)  
memory usage: 16.6+ MB  
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 1149780 entries, 0 to 1149779  
Data columns (total 3 columns):  
 # Column Non-Null Count Dtype   
--- ------ -------------- -----   
 0 User-ID 1149780 non-null int64   
 1 ISBN 1149780 non-null object  
 2 Book-Rating 1149780 non-null int64   
dtypes: int64(2), object(1)  
memory usage: 26.3+ MB  
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 278858 entries, 0 to 278857  
Data columns (total 3 columns):  
 # Column Non-Null Count Dtype   
--- ------ -------------- -----   
 0 User-ID 278858 non-null int64   
 1 Location 278858 non-null object   
 2 Age 168096 non-null float64  
dtypes: float64(1), int64(1), object(1)  
memory usage: 6.4+ MB

(None, None, None)

```{python}  
# Seeing each of the dataframes individually  
books\_df  
```

|  | ISBN | Book-Title | Book-Author | Year-Of-Publication | Publisher | Image-URL-S | Image-URL-M | Image-URL-L |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0195153448 | Classical Mythology | Mark P. O. Morford | 2002 | Oxford University Press | http://images.amazon.com/images/P/0195153448.0... | http://images.amazon.com/images/P/0195153448.0... | http://images.amazon.com/images/P/0195153448.0... |
| 1 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada | http://images.amazon.com/images/P/0002005018.0... | http://images.amazon.com/images/P/0002005018.0... | http://images.amazon.com/images/P/0002005018.0... |
| 2 | 0060973129 | Decision in Normandy | Carlo D'Este | 1991 | HarperPerennial | http://images.amazon.com/images/P/0060973129.0... | http://images.amazon.com/images/P/0060973129.0... | http://images.amazon.com/images/P/0060973129.0... |
| 3 | 0374157065 | Flu: The Story of the Great Influenza Pandemic... | Gina Bari Kolata | 1999 | Farrar Straus Giroux | http://images.amazon.com/images/P/0374157065.0... | http://images.amazon.com/images/P/0374157065.0... | http://images.amazon.com/images/P/0374157065.0... |
| 4 | 0393045218 | The Mummies of Urumchi | E. J. W. Barber | 1999 | W. W. Norton &amp; Company | http://images.amazon.com/images/P/0393045218.0... | http://images.amazon.com/images/P/0393045218.0... | http://images.amazon.com/images/P/0393045218.0... |
| ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 271355 | 0440400988 | There's a Bat in Bunk Five | Paula Danziger | 1988 | Random House Childrens Pub (Mm) | http://images.amazon.com/images/P/0440400988.0... | http://images.amazon.com/images/P/0440400988.0... | http://images.amazon.com/images/P/0440400988.0... |
| 271356 | 0525447644 | From One to One Hundred | Teri Sloat | 1991 | Dutton Books | http://images.amazon.com/images/P/0525447644.0... | http://images.amazon.com/images/P/0525447644.0... | http://images.amazon.com/images/P/0525447644.0... |
| 271357 | 006008667X | Lily Dale : The True Story of the Town that Ta... | Christine Wicker | 2004 | HarperSanFrancisco | http://images.amazon.com/images/P/006008667X.0... | http://images.amazon.com/images/P/006008667X.0... | http://images.amazon.com/images/P/006008667X.0... |
| 271358 | 0192126040 | Republic (World's Classics) | Plato | 1996 | Oxford University Press | http://images.amazon.com/images/P/0192126040.0... | http://images.amazon.com/images/P/0192126040.0... | http://images.amazon.com/images/P/0192126040.0... |
| 271359 | 0767409752 | A Guided Tour of Rene Descartes' Meditations o... | Christopher Biffle | 2000 | McGraw-Hill Humanities/Social Sciences/Languages | http://images.amazon.com/images/P/0767409752.0... | http://images.amazon.com/images/P/0767409752.0... | http://images.amazon.com/images/P/0767409752.0... |

```{python}  
ratings\_df  
```

|  | User-ID | ISBN | Book-Rating |
| --- | --- | --- | --- |
| 0 | 276725 | 034545104X | 0 |
| 1 | 276726 | 0155061224 | 5 |
| 2 | 276727 | 0446520802 | 0 |
| 3 | 276729 | 052165615X | 3 |
| 4 | 276729 | 0521795028 | 6 |
| ... | ... | ... | ... |
| 1149775 | 276704 | 1563526298 | 9 |
| 1149776 | 276706 | 0679447156 | 0 |
| 1149777 | 276709 | 0515107662 | 10 |
| 1149778 | 276721 | 0590442449 | 10 |
| 1149779 | 276723 | 05162443314 | 8 |

```{python}  
users\_df  
```

|  | User-ID | Location | Age |
| --- | --- | --- | --- |
| 0 | 1 | nyc, new york, usa | NaN |
| 1 | 2 | stockton, california, usa | 18.0 |
| 2 | 3 | moscow, yukon territory, russia | NaN |
| 3 | 4 | porto, v.n.gaia, portugal | 17.0 |
| 4 | 5 | farnborough, hants, united kingdom | NaN |
| ... | ... | ... | ... |
| 278853 | 278854 | portland, oregon, usa | NaN |
| 278854 | 278855 | tacoma, washington, united kingdom | 50.0 |
| 278855 | 278856 | brampton, ontario, canada | NaN |
| 278856 | 278857 | knoxville, tennessee, usa | NaN |
| 278857 | 278858 | dublin, n/a, ireland | NaN |

Before I can pass the datasets over to the Machine Learning model for training and prediction, I had to consolidate all of my datasets into one so that it would be more easier and convenient to analyze.

```{python}  
# Remove any unnecessary columns (before merging)  
books\_df.drop(columns=["Image-URL-S", "Image-URL-M", "Image-URL-L"], axis=1, inplace=True)  
books\_df  
```

|  | ISBN | Book-Title | Book-Author | Year-Of-Publication | Publisher |
| --- | --- | --- | --- | --- | --- |
| 0 | 0195153448 | Classical Mythology | Mark P. O. Morford | 2002 | Oxford University Press |
| 1 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada |
| 2 | 0060973129 | Decision in Normandy | Carlo D'Este | 1991 | HarperPerennial |
| 3 | 0374157065 | Flu: The Story of the Great Influenza Pandemic... | Gina Bari Kolata | 1999 | Farrar Straus Giroux |
| 4 | 0393045218 | The Mummies of Urumchi | E. J. W. Barber | 1999 | W. W. Norton &amp; Company |
| ... | ... | ... | ... | ... | ... |
| 271355 | 0440400988 | There's a Bat in Bunk Five | Paula Danziger | 1988 | Random House Childrens Pub (Mm) |
| 271356 | 0525447644 | From One to One Hundred | Teri Sloat | 1991 | Dutton Books |
| 271357 | 006008667X | Lily Dale : The True Story of the Town that Ta... | Christine Wicker | 2004 | HarperSanFrancisco |
| 271358 | 0192126040 | Republic (World's Classics) | Plato | 1996 | Oxford University Press |
| 271359 | 0767409752 | A Guided Tour of Rene Descartes' Meditations o... | Christopher Biffle | 2000 | McGraw-Hill Humanities/Social Sciences/Languages |

```{python}  
# Merge the books and ratings dataframes to have one & inclusive dataframe,   
# combining all book, user, and rating information  
df = pd.merge(books\_df, ratings\_df, on="ISBN")  
df  
```

|  | ISBN | Book-Title | Book-Author | Year-Of-Publication | Publisher | User-ID | Book-Rating |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0195153448 | Classical Mythology | Mark P. O. Morford | 2002 | Oxford University Press | 2 | 0 |
| 1 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada | 8 | 5 |
| 2 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada | 11400 | 0 |
| 3 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada | 11676 | 8 |
| 4 | 0002005018 | Clara Callan | Richard Bruce Wright | 2001 | HarperFlamingo Canada | 41385 | 0 |
| ... | ... | ... | ... | ... | ... | ... | ... |
| 1031131 | 0440400988 | There's a Bat in Bunk Five | Paula Danziger | 1988 | Random House Childrens Pub (Mm) | 276463 | 7 |
| 1031132 | 0525447644 | From One to One Hundred | Teri Sloat | 1991 | Dutton Books | 276579 | 4 |
| 1031133 | 006008667X | Lily Dale : The True Story of the Town that Ta... | Christine Wicker | 2004 | HarperSanFrancisco | 276680 | 0 |
| 1031134 | 0192126040 | Republic (World's Classics) | Plato | 1996 | Oxford University Press | 276680 | 0 |
| 1031135 | 0767409752 | A Guided Tour of Rene Descartes' Meditations o... | Christopher Biffle | 2000 | McGraw-Hill Humanities/Social Sciences/Languages | 276680 | 0 |

Additionally, before handing my combined Book dataset over for Machine Learning training and prediction, I need to clean the data prior to the analysis stage: removing duplicates, deleting null/NaN vales, fixing types of columns, filling invalid values with suitable alternatives, etc. Fortunately, the data inherited from Kaggle here is in a preferable format already, so there does not need to be extensive amount of data cleaning here.

```{python}  
# Figuring out the number of duplicated elements in the dataset (could be   
# problematic if not resolved)  
df.duplicated().sum()  
```

0

```{python}  
# Figuring out the number of 'null'/'NaN' elements in the dataset (if NaN   
# filling is needed or not)  
(df.isnull().sum() / df.shape[0]) \* 100  
```

ISBN 0.000000  
Book-Title 0.000000  
Book-Author 0.000194  
Year-Of-Publication 0.000000  
Publisher 0.000194  
User-ID 0.000000  
Book-Rating 0.000000  
dtype: float64

```{python}  
# Fill unknown and unformatted values with proper ones for readability and to  
# improve data accuracy and relevance   
df["Book-Author"].fillna("N/A", inplace=True)  
df["Publisher"].fillna("N/A", inplace=True)  
  
df["Year-Of-Publication"] = df["Year-Of-Publication"].astype(str)  
df["Year-Of-Publication"] = df["Year-Of-Publication"].map(lambda entry: entry if entry.isnumeric() else df["Year-Of-Publication"].mode()[0])  
df["Year-Of-Publication"] = df["Year-Of-Publication"].astype("int64")  
  
# Change types of columns to allow an easier time to parse  
df["Book-Title"] = df["Book-Title"].astype(str)  
df["Book-Author"] = df["Book-Author"].astype(str)  
df["ISBN"] = df["ISBN"].astype(str)  
df["Publisher"] = df["Publisher"].astype(str)  
  
# Getting basic information about the dataset (once again)  
df.info()  
```

<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 1031136 entries, 0 to 1031135  
Data columns (total 7 columns):  
 # Column Non-Null Count Dtype   
--- ------ -------------- -----   
 0 ISBN 1031136 non-null object  
 1 Book-Title 1031136 non-null object  
 2 Book-Author 1031136 non-null object  
 3 Year-Of-Publication 1031136 non-null int64   
 4 Publisher 1031136 non-null object  
 5 User-ID 1031136 non-null int64   
 6 Book-Rating 1031136 non-null int64   
dtypes: int64(3), object(4)  
memory usage: 55.1+ MB

As defined in the code snippet below, with subsequent modifications and copies of the working dataset, there will be a need to quantify the status and real-life/applicable statistics out to you, the user. Thus, I designed a function to report needed information called report\_basic\_stats. From time to time, there will be calls to this function, giving up-to-date information about the state of the dataset currently modified.

```{python}  
def report\_basic\_stats(dataframe: pd.DataFrame, type: str):  
 global n\_users, n\_books  
 n\_users = dataframe["User-ID"].unique().shape[0]  
 n\_books = dataframe["ISBN"].unique().shape[0]  
 n\_ratings = len(dataframe["Book-Rating"])  
 avg\_num\_ratings\_per\_user = n\_ratings / n\_users  
   
 print("Number of Unique Book Users in This Dataset ({}):".format(type), n\_users)  
 print("Number of Unique Book Titles / ISBNs in This Dataset ({}):".format(type), n\_books)  
 print("Number of Total Ratings in This Dataset ({}):".format(type), n\_ratings)  
 print("Average Number of Book Ratings per User in This Dataset ({}):".format(type), round(avg\_num\_ratings\_per\_user, 3))  
```

Alright, let’s begin by looking at the up-to-date information about the state of the original dataset using the report\_basic\_stats function:

```{python}  
report\_basic\_stats(df, "Regular")  
```

Number of Unique Book Users in This Dataset (Regular): 92106  
Number of Unique Book Titles / ISBNs in This Dataset (Regular): 270151  
Number of Total Ratings in This Dataset (Regular): 1031136  
Average Number of Book Ratings per User in This Dataset (Regular): 11.195

At this point, the data has been cleaned. However, there are some modifications that I have considered in this case such as limiting the amount of Book-ISBNs and Book-Users displayed (up to 3000 in this case). This is intentional to keep the dataset from becoming too long to visualize and compute within the Machine Learning model.

```{python}  
# Filter the first 3000 Book-ISBNs in Dataset  
book\_isbn\_index = df.groupby("ISBN").count().sort\_values(by="Book-Rating", ascending=False)[0:3000].index  
df2 = df[df["ISBN"].isin(book\_isbn\_index)]  
df2.count()  
```

ISBN 271456  
Book-Title 271456  
Book-Author 271456  
Year-Of-Publication 271456  
Publisher 271456  
User-ID 271456  
Book-Rating 271456  
dtype: int64

```{python}  
# Filter the first 3000 Book-Users in Dataset  
book\_users\_index = df2.groupby("User-ID").count().sort\_values(by="Book-Rating", ascending=False)[0:3000].index  
df3 = df2[df2["User-ID"].isin(book\_users\_index)]  
df3.count()  
```

ISBN 172071  
Book-Title 172071  
Book-Author 172071  
Year-Of-Publication 172071  
Publisher 172071  
User-ID 172071  
Book-Rating 172071  
dtype: int64

Since I had to cut down to 3000 Book-entries maximum in the dataset, I had to reindex the unique Book-ISBNs and Book User-IDs to account for this filtering. Thus, I removed all entries that were not part of this subset to maintain data consistency and integrity.

```{python}  
# Make a separate dataframe for unique Book-ISBNs  
book\_isbns = df3["ISBN"].unique()  
isbn\_df = pd.DataFrame(data=book\_isbns, columns=["Original-ISBN"])  
isbn\_df["New-ISBN"] = isbn\_df.index + 1  
```

```{python}  
# Make a separate dataframe for unique Book-Users (indicated by their IDs)  
book\_users = df3["User-ID"].unique()  
users\_df = pd.DataFrame(data=book\_users, columns=["Original-User-ID"])  
users\_df["New-User-ID"] = users\_df.index + 1  
```

```{python}  
# Merge in new indices for Book-ISBN and Book-User-IDs that are modified  
# from 1 to 3000 (accounts for scaling down of data)  
cleaned\_df = df3.merge(isbn\_df, left\_on="ISBN", right\_on="Original-ISBN")  
cleaned\_df.drop(columns=["Original-ISBN"], axis=1, inplace=True)  
  
cleaned\_df = cleaned\_df.merge(users\_df, left\_on="User-ID", right\_on="Original-User-ID")  
cleaned\_df.drop(columns=["Original-User-ID"], axis=1, inplace=True)  
cleaned\_df  
```

|  | ISBN | Book-Title | Book-Author | Year-Of-Publication | Publisher | User-ID | Book-Rating | New-ISBN | New-User-ID |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0440234743 | The Testament | John Grisham | 1999 | Dell | 277478 | 0 | 1 | 1 |
| 1 | 0971880107 | Wild Animus | Rich Shapero | 2004 | Too Far | 277478 | 0 | 3 | 1 |
| 2 | 0671888587 | I'll Be Seeing You | Mary Higgins Clark | 1994 | Pocket | 277478 | 0 | 9 | 1 |
| 3 | 0440225701 | The Street Lawyer | JOHN GRISHAM | 1999 | Dell | 277478 | 0 | 15 | 1 |
| 4 | 0786868716 | The Five People You Meet in Heaven | Mitch Albom | 2003 | Hyperion | 277478 | 0 | 30 | 1 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 172066 | 0767908171 | A Short History of Nearly Everything | Bill Bryson | 2003 | Broadway | 70999 | 0 | 2798 | 3000 |
| 172067 | 0385234104 | Fatherhood | Bill Cosby | 1986 | Bantam Dell Pub Group | 70999 | 0 | 2857 | 3000 |
| 172068 | 0425190641 | Fire Ice: A Novel from the Numa Files (Kurt Au... | Clive Cussler | 2003 | Berkley Publishing Group | 70999 | 0 | 2874 | 3000 |
| 172069 | 0553584375 | No One to Trust | IRIS JOHANSEN | 2003 | Bantam | 70999 | 0 | 2880 | 3000 |
| 172070 | 044023512X | City of Light | Lauren Belfer | 2000 | Island | 70999 | 0 | 2941 | 3000 |

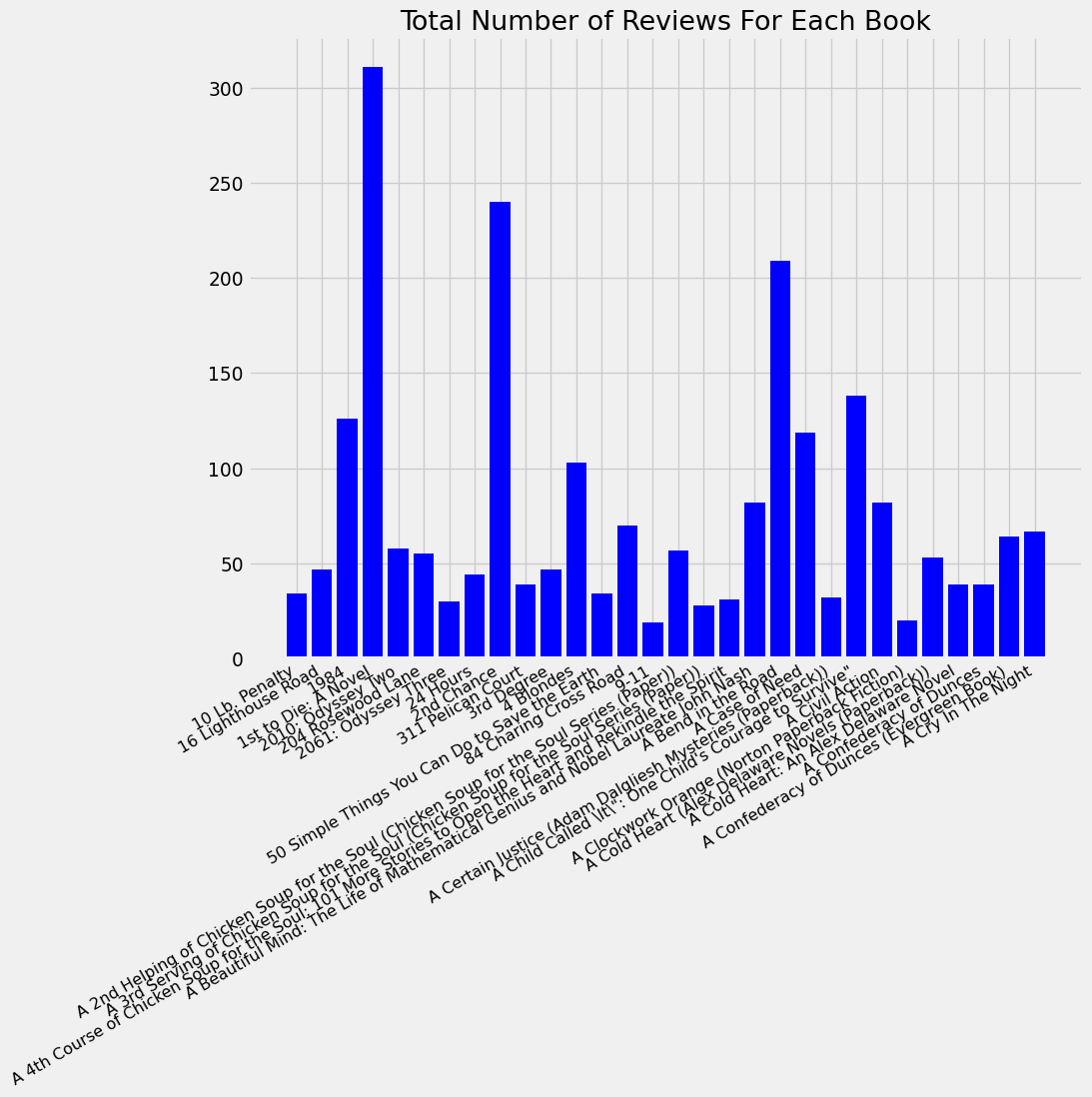
Here, I am trying to offer some visualizations of the cleaned dataset before we pass it over for Machine Learning training and prediction. The first visualization (below) describes about the total number of reviews given to each of the 3000 books in the dataset. Arbitrarily though, I set a maximum of 30 book titles visualized to save space as my editor could not plot more than that without it become illegible. The strategy there was grouping by Book-Titles and and counting number of Book-Rating entries for that particular Book entry.

```{python}  
# Make a copy of the cleaned dataframe  
cleaned\_df\_condensed\_trends = cleaned\_df.copy()  
  
# Drop unnecessary columns  
cleaned\_df\_condensed\_trends.drop(labels=["ISBN",   
 "Book-Author",  
 "Year-Of-Publication",  
 "Publisher",  
 "User-ID",  
 "New-ISBN",  
 "New-User-ID"], axis=1, inplace=True)  
  
# Used grouping and counting to gather book-review counts for each indexed title  
cleaned\_df\_condensed\_trends\_copy = cleaned\_df\_condensed\_trends.copy()  
cleaned\_df\_condensed\_trends = pd.DataFrame(cleaned\_df\_condensed\_trends\_copy  
 .groupby("Book-Title")["Book-Rating"]  
 .mean())  
cleaned\_df\_condensed\_trends["Total-Num-Of-Ratings"] = pd.DataFrame(cleaned\_df\_condensed\_trends\_copy  
 .groupby("Book-Title")["Book-Rating"]  
 .count())  
cleaned\_df\_condensed\_trends.head(10)  
```

|  | Book-Rating | Total-Num-Of-Ratings |
| --- | --- | --- |
| Book-Title |  |  |
| 10 Lb. Penalty | 1.911765 | 34 |
| 16 Lighthouse Road | 1.276596 | 47 |
| 1984 | 3.817460 | 126 |
| 1st to Die: A Novel | 2.893891 | 311 |
| 2010: Odyssey Two | 2.086207 | 58 |
| 204 Rosewood Lane | 1.581818 | 55 |
| 2061: Odyssey Three | 3.133333 | 30 |
| 24 Hours | 1.454545 | 44 |
| 2nd Chance | 2.704167 | 240 |
| 311 Pelican Court | 2.435897 | 39 |

```{python}  
# Creating a bar graph describing number of reviews for first 30 books  
plt.figure(figsize=(10, 8))  
ax=plt.subplot()  
ax.bar(cleaned\_df\_condensed\_trends.head(30).index,  
 cleaned\_df\_condensed\_trends["Total-Num-Of-Ratings"].head(30),   
 color="b")  
ax.set\_xticklabels(cleaned\_df\_condensed\_trends.index,  
 rotation=30,  
 fontsize="12",  
 horizontalalignment="right")  
ax.set\_title("Total Number of Reviews For Each Book")  
plt.show()  
```

C:\Users\andre\AppData\Local\Temp\ipykernel\_12436\177655821.py:7: UserWarning: set\_ticklabels() should only be used with a fixed number of ticks, i.e. after set\_ticks() or using a FixedLocator.  
 ax.set\_xticklabels(cleaned\_df\_condensed\_trends.index,



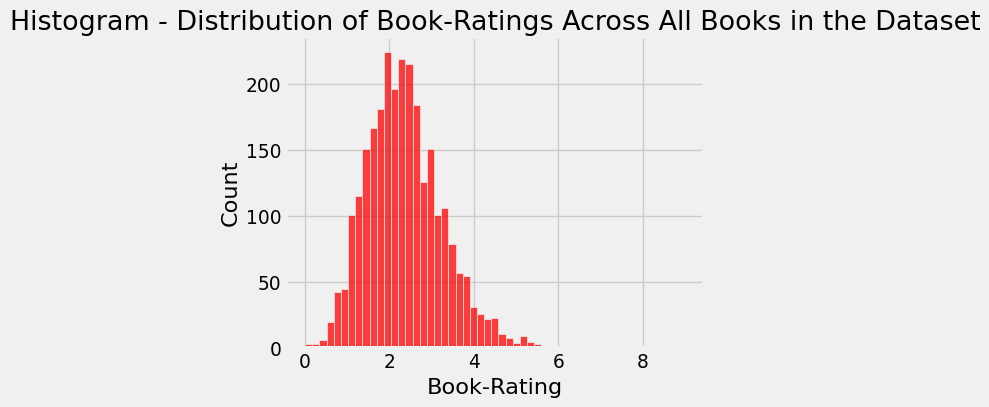
Just to give an interesting statistic, I decided to make another copy of the working dataset, grouped by Book-Title but sorted by Book-Rating. This was intentional to output and report the most-popular (Top-50 rated books) and least-populat (Bottom-50 rated books) on average, which is an important piece of data for the user to know.

```{python}  
# Calculate mean rating of all books (copy of cleaned dataframe)  
# Output the Top-50 and Bottom-50 rated books on average  
cleaned\_df\_sorted\_mean\_rating = cleaned\_df.copy().groupby("Book-Title")["Book-Rating"].mean().sort\_values(ascending=False)  
print("--------- Sorted by Mean On Average: ---------\n")  
print("--------- TOP 50: ---------\n", cleaned\_df\_sorted\_mean\_rating.head(50))  
print("\n\n--------- BOTTOM 50: ---------\n", cleaned\_df\_sorted\_mean\_rating.tail(50))  
```

--------- Sorted by Mean On Average: ---------  
  
--------- TOP 50: ---------  
 Book-Title  
Generation Golf. Eine Inspektion 9.000000  
Novocento, Un Monologo 9.000000  
Io Non Ho Paura 8.000000  
Herr Lehmann. 7.500000  
L'Etranger (Collection Folio, 2) 6.777778  
Griffin &amp; Sabine: An Extraordinary Correspondence 6.000000  
The Darwin Awards: Evolution in Action 5.653846  
Harry Potter and the Sorcerer's Stone (Book 1) 5.651613  
My Sister's Keeper : A Novel (Picoult, Jodi) 5.515152  
Harry Potter and the Prisoner of Azkaban (Book 3) 5.465116  
Harry Potter and the Goblet of Fire (Book 4) 5.445415  
The Stand (The Complete and Uncut Edition) 5.433333  
Balzac and the Little Chinese Seamstress 5.379310  
Harry Potter and the Chamber of Secrets Postcard Book 5.363636  
The Lone Ranger and Tonto Fistfight in Heaven 5.333333  
Harry Potter and the Order of the Phoenix (Book 5) 5.277228  
Hamlet 5.241379  
The Lunatic Cafe (Anita Blake Vampire Hunter (Paperback)) 5.230769  
The Little Prince 5.210526  
Wiener Dog Art 5.157895  
Weirdos From Another Planet! 5.147059  
Killing Dance (Anita Blake Vampire Hunter (Paperback)) 5.142857  
The Secret Garden 5.133333  
Wicca: A Guide for the Solitary Practitioner 5.120000  
Sabine's Notebook: In Which the Extraordinary Correspondence of Griffin &amp; Sabine Continues 5.105263  
The Metamorphosis (Bantam Classics) 5.062500  
The Grapes of Wrath (20th Century Classics) 5.031250  
The Lion, the Witch, and the Wardrobe (The Chronicles of Narnia, Book 2) 4.978723  
Green Eggs and Ham (I Can Read It All by Myself Beginner Books) 4.931034  
Harry Potter and the Chamber of Secrets (Book 2) 4.924092  
The Cat in the Hat 4.903226  
GREAT GATSBY (REISSUE) 4.800000  
Ender's Game (Ender Wiggins Saga (Paperback)) 4.793478  
The Vagina Monologues: The V-Day Edition 4.793103  
The Godfather 4.783784  
All I Need to Know I Learned from My Cat 4.769231  
Hyperion 4.764706  
Sister of My Heart 4.743590  
Sense and Sensibility (Penguin Popular Classics) 4.733333  
On the Banks of Plum Creek 4.718750  
Rich Dad, Poor Dad: What the Rich Teach Their Kids About Money--That the Poor and Middle Class Do Not! 4.717949  
The Lord of the Rings (Movie Art Cover) 4.714286  
Needful Things: The Last Castle Rock Story 4.681818  
The Jungle (Bantam Classics) 4.652174  
Memoirs of a Geisha 4.638298  
Pride &amp; Prejudice (Wordsworth Classics) 4.631579  
The Spirit Catches You and You Fall Down 4.600000  
Anthem 4.590909  
JITTERBUG PERFUME 4.571429  
The Curious Incident of the Dog in the Night-Time (Vintage Contemporaries) 4.571429  
Name: Book-Rating, dtype: float64  
  
  
--------- BOTTOM 50: ---------  
 Book-Title  
Silent Honor 0.735294  
Vernon God Little: A 21st Century Comedy in the Presence of Death 0.727273  
Ruthless.Com (Tom Clancy's Power Plays (Paperback)) 0.725806  
The Blooding 0.722222  
Where You Belong 0.720930  
The Matarese Countdown 0.717949  
Pleading Guilty 0.716049  
Family Pictures 0.714286  
Fortune's Hand 0.708333  
Passion's Promise 0.705882  
Ssn 0.700000  
The Icarus Agenda 0.700000  
Legacy of Silence 0.696970  
Confessions of a Sociopathic Social Climber : The Katya Livingston Chronicles (Katya Livingston Chronicles (Hardcover)) 0.695652  
The Blue Last: A Richard Jury Mystery (Richard Jury Mysteries (Paperback)) 0.695652  
Subterranean 0.695652  
The Legend of Bagger Vance 0.692308  
State of Siege (Tom Clancy's Op-Center, 6) 0.680851  
Man From St Petersburg 0.659091  
Master of the Game 0.658537  
Rosehaven 0.656250  
The X-Files: Goblins 0.640000  
Welcome to Dead House (Goosebumps, No 1) 0.638889  
Ground Zero and Beyond 0.629032  
Los Alamos: A Novel 0.620690  
Treasures 0.617647  
Whirlwind 0.606061  
If Tomorrow Comes 0.605263  
WEB OF DREAMS (Casteel Saga (Paperback)) 0.604651  
Starting Over 0.600000  
Hurricane Bay 0.600000  
Montana 0.595238  
Wild Animus 0.582865  
People of the River (The First North Americans series, Book 4) 0.571429  
Honor Among Thieves 0.568182  
The Cat Who Went into the Closet 0.566038  
After the Fire 0.564103  
Yesterday 0.531250  
Monster Blood (Goosebumps, No 3) 0.466667  
Women in His Life 0.452381  
Long, Lean, and Lethal 0.451613  
Dating Game 0.400000  
Billy Straight: A Novel 0.375000  
McNally's Luck (Archy McNally Novels (Paperback)) 0.365854  
Final Flight 0.333333  
Stay Out of the Basement (Goosebumps, No 2) 0.285714  
Say Cheese and Die! (Goosebumps, No 4) 0.275862  
Long Time No See 0.161290  
The Sculptress 0.000000  
Der Vorleser 0.000000  
Name: Book-Rating, dtype: float64

The second visualization gathers all of the numerical book-ratings across all books, contrasting how book reviewers score and evaluate these literature text sources generally. With this ranged data, it would seem most appropriate to display this visualization of statistical data within a histogram.

```{python}  
sns.histplot(pd.DataFrame(cleaned\_df\_sorted\_mean\_rating)["Book-Rating"], color="r")  
plt.title("Histogram - Distribution of Book-Ratings Across All Books in the Dataset")  
plt.show()  
```



As compared to earlier, let’s look at the up-to-date information about the state of the reduced (in-size) dataset using the report\_basic\_stats function.

```{python}  
report\_basic\_stats(cleaned\_df, "Reduced")  
```

Number of Unique Book Users in This Dataset (Reduced): 3000  
Number of Unique Book Titles / ISBNs in This Dataset (Reduced): 3000  
Number of Total Ratings in This Dataset (Reduced): 172071  
Average Number of Book Ratings per User in This Dataset (Reduced): 57.357

## Machine Learning - Model Training and Evaluation

Great, now we are onto the Machine Learning part of the blog post!

Since the dataframe is now properly cleaned by this point, I had split the respective dataframe into the train, test, and validation datasets for the Machine Learning model with 90% going to the training dataset, the next 5% going to the validation dataset, and the last 5% going to the test dataset. Fortunately, because order of the data sequentially does not matter here, I was able to utilize the train\_test\_split function for shuffling and randomization, making the future-generated Machine Learning model more unpredictable but also more objective in its returned model results.

```{python}  
# Configuring the Machine Learning Tensorflow Model by splitting the data 90% for testing,  
# 5% for validation, and 5% for testing  
X\_train, X\_test = train\_test\_split(cleaned\_df, test\_size=0.10, shuffle=True, random\_state=2018)  
X\_val, X\_test = train\_test\_split(X\_test, test\_size=0.50, shuffle=True, random\_state=2018)  
```

```{python}  
# Outputting the shape of the new datasets  
print("Shape of Training Set:", X\_train.shape, "and Size of Training Set:", X\_train.size)  
print("Shape of Validation Set:", X\_val.shape, "and Size of Validation Set:", X\_val.size)  
print("Shape of Test Set:", X\_test.shape, "and Size of Testing Set:", X\_test.size)  
```

Shape of Training Set: (154863, 9) and Size of Training Set: 1393767  
Shape of Validation Set: (8604, 9) and Size of Validation Set: 77436  
Shape of Test Set: (8604, 9) and Size of Testing Set: 77436

As recommended online for any Collaborative-Filtering Recommendation Systems, one suggestion was to manually check and compute the mean\_squared\_error for ratings in your dataset. Thus, I defined a cost function that utilizes a sparse np.array starting with all 0’s of dimension-size n\_users x n\_books. The entries at specified locations would be converted non-zero by utilizing every Book-ISBN and Book User-ID position to generate a computed rating. The objective with calculating the mean\_squared\_error is to check how close estimates are to actual, observed values found within the given dataset.

```{python}  
# Define my cost function (mean-squared error) for each dataset before the  
# invokation of the Machine Learning algorithm  
df\_ratings\_train = np.zeros((n\_users, n\_books))  
for r in X\_train.itertuples():  
 df\_ratings\_train[r[9] - 1, r[8] - 1] = r[7]  
print(df\_ratings\_train.shape)  
df\_ratings\_train  
```

(3000, 3000)

array([[0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 ...,  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.]])

```{python}  
df\_ratings\_validation = np.zeros((n\_users, n\_books))  
for r in X\_val.itertuples():  
 df\_ratings\_validation[r[9] - 1, r[8] - 1] = r[7]  
print(df\_ratings\_validation.shape)  
df\_ratings\_validation  
```

(3000, 3000)

array([[0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 ...,  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.]])

```{python}  
df\_ratings\_test = np.zeros((n\_users, n\_books))  
for r in X\_test.itertuples():  
 df\_ratings\_test[r[9] - 1, r[8] - 1] = r[7]  
print(df\_ratings\_test.shape)  
df\_ratings\_test  
```

(3000, 3000)

array([[0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 ...,  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.],  
 [0., 0., 0., ..., 0., 0., 0.]])

After the dataframes had the cost function computed for all, I made 2 matrices - one for the book user-similiarity and one for the book item-similarity. The idea here is to account for relative difference in the ratings between several distinct Book-Users and Book-ISBNs (items) themselves. Statically proven, relative differences in ratings give more insight than the absolute rating values. As described on the CambridgeSpark reference below, the rating system could be skewed by human biases such as solid consistent ratings for good vs. bad books through cover inspection, ratings based on topic preference or thoughts on the user’s views rather than objective review, etc.

Note that in the user-based similarity predictions that ratings as weights need to be normalized, so summation and average on top of a dot-product calcuation on the matrix is needed. This is to make sure the ratings stay within the expected range of 1.0 (worst) to 10.0 (best).

At the end of the code cell below, a comparison on the prediction matrices with the df\_ratings\_test matrix using dimensionality reduction and the mean\_squared\_error function the sklearn.metrics module is computed to quantify the closeness of estimates to the actual dataset (as described previously).

```{python}  
# Computes the cosine similarity between all books using pairwise distancing  
book\_user\_similarity = pairwise\_distances(df\_ratings\_train, metric="cosine")  
book\_item\_similarity = pairwise\_distances(df\_ratings\_train.T, metric="cosine")  
  
# Calculates prediction ratio for book\_users and book\_items  
def perform\_prediction\_similarity\_based(ratings, similiarity, pred\_type="user"):  
 if pred\_type == "user":  
 mean\_user\_rating = ratings.mean(axis=1)  
 # You use np.newaxis so that the user\_rating has the same format as ratings  
 ratings\_diff = (ratings - mean\_user\_rating[: np.newaxis])  
 pred = mean\_user\_rating[: np.newaxis] + (similiarity.dot(ratings\_diff) / np.array([np.abs(similiarity).sum(axis=1)]))  
 elif pred\_type == "item":  
 pred = ratings.dot(similiarity) / np.array([np.abs(similiarity).sum(axis=1)])  
 return pred  
  
book\_user\_prediction = perform\_prediction\_similarity\_based(df\_ratings\_train, book\_user\_similarity, pred\_type="user")  
book\_item\_prediction = perform\_prediction\_similarity\_based(df\_ratings\_train, book\_item\_similarity, pred\_type="item")  
  
# Using predictions, calculates the mean squared error for each book\_user and  
# book\_item  
def compute\_mean\_square\_error(predicted, actual):  
 predicted = predicted[actual.nonzero()].flatten()  
 actual = actual[actual.nonzero()].flatten()  
 return mean\_squared\_error(predicted, actual)  
  
print("For Collaborative Filtering:")  
print(f"Book User-Based Mean-Square-Error: {compute\_mean\_square\_error(book\_user\_prediction, df\_ratings\_test)}")  
print(f"Book Item-Based Mean-Square-Error: {compute\_mean\_square\_error(book\_item\_prediction, df\_ratings\_test)}")  
```

For Collaborative Filtering:  
Book User-Based Mean-Square-Error: 63.272539998623145  
Book Item-Based Mean-Square-Error: 62.53832448961992

One other calculation that is beneficial to check with regards to these matrices includes matrix sparsity. With a less sparse matrix (through a lower-percentage return), I found that it was more beneficial to more efficient to use dense Machine Learning representations and algorithms optimized for dense data, which will done later while creating the Sequential layering of the model. After performing the calculations below, this seemed to be the case I was dealing with here.

```{python}  
# Outputs the sparsity stats of a given dataframe  
def print\_sparsity\_stats(df: pd.DataFrame, type: str):  
 print("-------------- Sparsity Stats for {}: --------------".format(type))  
 df\_sparsity = float(len(df.nonzero()[0]))  
 df\_sparsity /= (df.shape[0] \* df.shape[1])  
 df\_sparsity \*= 100  
 print('Sparsity: {:4.2f}%'.format(df\_sparsity))  
```

```{python}  
# Check the sparsity stats of the ratings' train, validation, and test np.arrays  
print\_sparsity\_stats(df\_ratings\_train, "Train")  
print\_sparsity\_stats(df\_ratings\_validation, "Validation")  
print\_sparsity\_stats(df\_ratings\_test, "Test")  
```

-------------- Sparsity Stats for Train: --------------  
Sparsity: 0.53%  
-------------- Sparsity Stats for Validation: --------------  
Sparsity: 0.03%  
-------------- Sparsity Stats for Test: --------------  
Sparsity: 0.03%

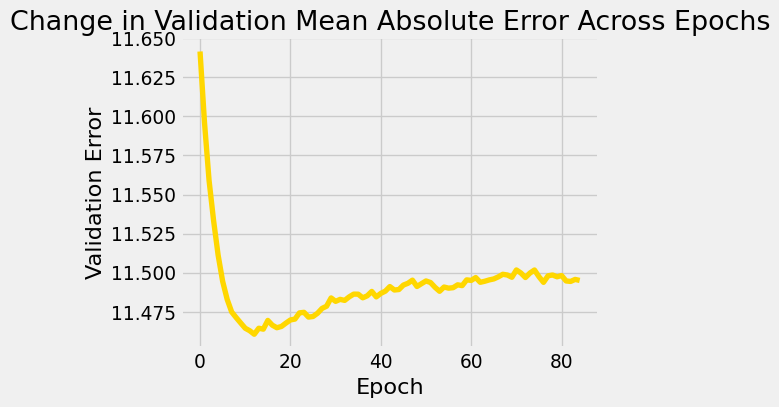
Now, I began to configure the Machine Learning model. We added Sequential layers of Input: incorporated an Input layer 1 by 1 because I only had 1 np.array as Input for Book-Users and another one as Input for Book-Items themselves, utilize a Embedding as recommended for each of the Input layers for models like these, and I followed up with flattening for dimensionality-reduction of both embeddings with input. Combining it with the dot-product of the two vector embeddings with input to make the initial model, we compiled it, utilzing the mean\_square\_error as our minimizing loss function, using the Adam optimizer, and comparing our trained model against our data with the mean\_absolute\_error metric. Lastly, I fitted our model, utilzing both of our X\_train datasets and the Y\_train dataset for fitting with validation from both of our X\_val datasets and the Y\_val dataset at 100 epochs.

```{python}  
# Apply the Input, Embeddings, and Dot Product on the Model  
n\_latent\_fact = 1  
user\_input = Input(shape=[1], name="User")  
user\_embedding = Embedding(input\_dim=n\_users + 1,   
 output\_dim=n\_latent\_fact,   
 name="User\_Embedding")(user\_input)  
user\_vec = Flatten(name="Flatten\_Users")(user\_embedding)  
book\_input = Input(shape=[1], name="Book")  
book\_embedding = Embedding(input\_dim=n\_books + 1,   
 output\_dim=n\_latent\_fact,   
 name="Book\_Embedding")(book\_input)  
book\_vec = Flatten(name="Flatten\_Movies")(book\_embedding)  
dot\_product = dot([book\_vec, user\_vec], axes=1)  
model = Model(inputs=[user\_input, book\_input], outputs=dot\_product)  
  
# Compile the model and fit the datasets to it  
model.compile(loss="mse",  
 optimizer=Adam(learning\_rate=0.001),  
 metrics=["mean\_absolute\_error"])  
  
book\_rec\_history = model.fit(x=(X\_train["New-User-ID"], X\_train["New-ISBN"]),   
 y=X\_train["Book-Rating"],  
 epochs=100,  
 validation\_data=([X\_val["New-User-ID"], X\_val["New-ISBN"]], X\_val["Book-Rating"]),  
 use\_multiprocessing=True)  
```

Epoch 1/100  
 1/4840 [..............................] - ETA: 28:07 - loss: 22.5315 - mean\_absolute\_error: 2.7192 51/4840 [..............................] - ETA: 4s - loss: 20.6020 - mean\_absolute\_error: 2.4992 107/4840 [..............................] - ETA: 4s - loss: 19.8272 - mean\_absolute\_error: 2.4222 166/4840 [>.............................] - ETA: 4s - loss: 20.0279 - mean\_absolute\_error: 2.4345 226/4840 [>.............................] - ETA: 4s - loss: 19.5632 - mean\_absolute\_error: 2.3772 285/4840 [>.............................] - ETA: 4s - loss: 19.6736 - mean\_absolute\_error: 2.3880 345/4840 [=>............................] - ETA: 3s - loss: 19.7101 - mean\_absolute\_error: 2.3909 400/4840 [=>............................] - ETA: 3s - loss: 19.8347 - mean\_absolute\_error: 2.4045 459/4840 [=>............................] - ETA: 3s - loss: 19.9539 - mean\_absolute\_error: 2.4190 517/4840 [==>...........................] - ETA: 3s - loss: 20.1053 - mean\_absolute\_error: 2.4353 576/4840 [==>...........................] - ETA: 3s - loss: 20.1077 - mean\_absolute\_error: 2.4388 635/4840 [==>...........................] - ETA: 3s - loss: 20.1186 - mean\_absolute\_error: 2.4393 692/4840 [===>..........................] - ETA: 3s - loss: 20.1220 - mean\_absolute\_error: 2.4408 750/4840 [===>..........................] - ETA: 3s - loss: 20.1644 - mean\_absolute\_error: 2.4457 809/4840 [====>.........................] - ETA: 3s - loss: 20.1255 - mean\_absolute\_error: 2.4411 868/4840 [====>.........................] - ETA: 3s - loss: 20.1444 - mean\_absolute\_error: 2.4415 927/4840 [====>.........................] - ETA: 3s - loss: 20.0883 - mean\_absolute\_error: 2.4344 986/4840 [=====>........................] - ETA: 3s - loss: 20.0410 - mean\_absolute\_error: 2.42921046/4840 [=====>........................] - ETA: 3s - loss: 20.0372 - mean\_absolute\_error: 2.42911105/4840 [=====>........................] - ETA: 3s - loss: 19.9941 - mean\_absolute\_error: 2.42411163/4840 [======>.......................] - ETA: 3s - loss: 20.0214 - mean\_absolute\_error: 2.42681222/4840 [======>.......................] - ETA: 3s - loss: 20.0466 - mean\_absolute\_error: 2.42961281/4840 [======>.......................] - ETA: 3s - loss: 20.1146 - mean\_absolute\_error: 2.43591341/4840 [=======>......................] - ETA: 3s - loss: 20.1205 - mean\_absolute\_error: 2.43561400/4840 [=======>......................] - ETA: 2s - loss: 20.1119 - mean\_absolute\_error: 2.43471461/4840 [========>.....................] - ETA: 2s - loss: 20.0634 - mean\_absolute\_error: 2.42931520/4840 [========>.....................] - ETA: 2s - loss: 20.1226 - mean\_absolute\_error: 2.43401578/4840 [========>.....................] - ETA: 2s - loss: 20.1037 - mean\_absolute\_error: 2.43171638/4840 [=========>....................] - ETA: 2s - loss: 20.0423 - mean\_absolute\_error: 2.42461697/4840 [=========>....................] - ETA: 2s - loss: 20.0655 - mean\_absolute\_error: 2.42721756/4840 [=========>....................] - ETA: 2s - loss: 20.0481 - mean\_absolute\_error: 2.42621815/4840 [==========>...................] - ETA: 2s - loss: 20.0558 - mean\_absolute\_error: 2.42761873/4840 [==========>...................] - ETA: 2s - loss: 20.0759 - mean\_absolute\_error: 2.43041932/4840 [==========>...................] - ETA: 2s - loss: 20.0778 - mean\_absolute\_error: 2.43051992/4840 [===========>..................] - ETA: 2s - loss: 20.0882 - mean\_absolute\_error: 2.43142051/4840 [===========>..................] - ETA: 2s - loss: 20.1249 - mean\_absolute\_error: 2.43612110/4840 [============>.................] - ETA: 2s - loss: 20.1105 - mean\_absolute\_error: 2.43432169/4840 [============>.................] - ETA: 2s - loss: 20.0833 - mean\_absolute\_error: 2.43142228/4840 [============>.................] - ETA: 2s - loss: 20.1011 - mean\_absolute\_error: 2.43342289/4840 [=============>................] - ETA: 2s - loss: 20.1183 - mean\_absolute\_error: 2.43512348/4840 [=============>................] - ETA: 2s - loss: 20.1166 - mean\_absolute\_error: 2.43442408/4840 [=============>................] - ETA: 2s - loss: 20.1058 - mean\_absolute\_error: 2.43322467/4840 [==============>...............] - ETA: 2s - loss: 20.1066 - mean\_absolute\_error: 2.43322526/4840 [==============>...............] - ETA: 1s - loss: 20.0898 - mean\_absolute\_error: 2.43142586/4840 [===============>..............] - ETA: 1s - loss: 20.0845 - mean\_absolute\_error: 2.43052645/4840 [===============>..............] - ETA: 1s - loss: 20.0794 - mean\_absolute\_error: 2.43022703/4840 [===============>..............] - ETA: 1s - loss: 20.0680 - mean\_absolute\_error: 2.42912758/4840 [================>.............] - ETA: 1s - loss: 20.0589 - mean\_absolute\_error: 2.42792818/4840 [================>.............] - ETA: 1s - loss: 20.0649 - mean\_absolute\_error: 2.42912878/4840 [================>.............] - ETA: 1s - loss: 20.0643 - mean\_absolute\_error: 2.42912937/4840 [=================>............] - ETA: 1s - loss: 20.0614 - mean\_absolute\_error: 2.42862998/4840 [=================>............] - ETA: 1s - loss: 20.0769 - mean\_absolute\_error: 2.43003056/4840 [=================>............] - ETA: 1s - loss: 20.0558 - mean\_absolute\_error: 2.42783115/4840 [==================>...........] - ETA: 1s - loss: 20.0410 - mean\_absolute\_error: 2.42623174/4840 [==================>...........] - ETA: 1s - loss: 20.0297 - mean\_absolute\_error: 2.42493234/4840 [===================>..........] - ETA: 1s - loss: 20.0251 - mean\_absolute\_error: 2.42423293/4840 [===================>..........] - ETA: 1s - loss: 20.0368 - mean\_absolute\_error: 2.42533353/4840 [===================>..........] - ETA: 1s - loss: 20.0388 - mean\_absolute\_error: 2.42583412/4840 [====================>.........] - ETA: 1s - loss: 20.0429 - mean\_absolute\_error: 2.42663470/4840 [====================>.........] - ETA: 1s - loss: 20.0392 - mean\_absolute\_error: 2.42643527/4840 [====================>.........] - ETA: 1s - loss: 20.0296 - mean\_absolute\_error: 2.42593587/4840 [=====================>........] - ETA: 1s - loss: 20.0333 - mean\_absolute\_error: 2.42623646/4840 [=====================>........] - ETA: 1s - loss: 20.0400 - mean\_absolute\_error: 2.42673703/4840 [=====================>........] - ETA: 0s - loss: 20.0286 - mean\_absolute\_error: 2.42563762/4840 [======================>.......] - ETA: 0s - loss: 20.0177 - mean\_absolute\_error: 2.42423821/4840 [======================>.......] - ETA: 0s - loss: 20.0087 - mean\_absolute\_error: 2.42293878/4840 [=======================>......] - ETA: 0s - loss: 20.0037 - mean\_absolute\_error: 2.42203937/4840 [=======================>......] - ETA: 0s - loss: 19.9768 - mean\_absolute\_error: 2.41953996/4840 [=======================>......] - ETA: 0s - loss: 19.9503 - mean\_absolute\_error: 2.41634056/4840 [========================>.....] - ETA: 0s - loss: 19.9515 - mean\_absolute\_error: 2.41704116/4840 [========================>.....] - ETA: 0s - loss: 19.9571 - mean\_absolute\_error: 2.41804175/4840 [========================>.....] - ETA: 0s - loss: 19.9598 - mean\_absolute\_error: 2.41864234/4840 [=========================>....] - ETA: 0s - loss: 19.9633 - mean\_absolute\_error: 2.41894292/4840 [=========================>....] - ETA: 0s - loss: 19.9637 - mean\_absolute\_error: 2.41914350/4840 [=========================>....] - ETA: 0s - loss: 19.9726 - mean\_absolute\_error: 2.41984409/4840 [==========================>...] - ETA: 0s - loss: 19.9749 - mean\_absolute\_error: 2.41994469/4840 [==========================>...] - ETA: 0s - loss: 19.9672 - mean\_absolute\_error: 2.41954528/4840 [===========================>..] - ETA: 0s - loss: 19.9603 - mean\_absolute\_error: 2.41854587/4840 [===========================>..] - ETA: 0s - loss: 19.9579 - mean\_absolute\_error: 2.41844646/4840 [===========================>..] - ETA: 0s - loss: 19.9594 - mean\_absolute\_error: 2.41864705/4840 [============================>.] - ETA: 0s - loss: 19.9520 - mean\_absolute\_error: 2.41814765/4840 [============================>.] - ETA: 0s - loss: 19.9590 - mean\_absolute\_error: 2.41904825/4840 [============================>.] - ETA: 0s - loss: 19.9578 - mean\_absolute\_error: 2.41924840/4840 [==============================] - 5s 921us/step - loss: 19.9693 - mean\_absolute\_error: 2.4205 - val\_loss: 19.7196 - val\_mean\_absolute\_error: 2.4008  
Epoch 2/100  
 1/4840 [..............................] - ETA: 9s - loss: 21.0571 - mean\_absolute\_error: 2.7724 59/4840 [..............................] - ETA: 4s - loss: 20.0006 - mean\_absolute\_error: 2.4382 120/4840 [..............................] - ETA: 4s - loss: 19.7748 - mean\_absolute\_error: 2.4245 179/4840 [>.............................] - ETA: 3s - loss: 20.0039 - mean\_absolute\_error: 2.4468 239/4840 [>.............................] - ETA: 3s - loss: 19.9790 - mean\_absolute\_error: 2.4391 298/4840 [>.............................] - ETA: 3s - loss: 19.5546 - mean\_absolute\_error: 2.3926 357/4840 [=>............................] - ETA: 3s - loss: 19.7584 - mean\_absolute\_error: 2.4131 416/4840 [=>............................] - ETA: 3s - loss: 19.7606 - mean\_absolute\_error: 2.4108 477/4840 [=>............................] - ETA: 3s - loss: 19.6548 - mean\_absolute\_error: 2.4011 536/4840 [==>...........................] - ETA: 3s - loss: 19.7679 - mean\_absolute\_error: 2.4122 596/4840 [==>...........................] - ETA: 3s - loss: 19.8108 - mean\_absolute\_error: 2.4161 653/4840 [===>..........................] - ETA: 3s - loss: 19.7309 - mean\_absolute\_error: 2.4095 712/4840 [===>..........................] - ETA: 3s - loss: 19.6824 - mean\_absolute\_error: 2.4068 770/4840 [===>..........................] - ETA: 3s - loss: 19.6953 - mean\_absolute\_error: 2.4073 829/4840 [====>.........................] - ETA: 3s - loss: 19.7211 - mean\_absolute\_error: 2.4101 887/4840 [====>.........................] - ETA: 3s - loss: 19.6693 - mean\_absolute\_error: 2.4045 945/4840 [====>.........................] - ETA: 3s - loss: 19.6260 - mean\_absolute\_error: 2.40011003/4840 [=====>........................] - ETA: 3s - loss: 19.6796 - mean\_absolute\_error: 2.40681062/4840 [=====>........................] - ETA: 3s - loss: 19.7080 - mean\_absolute\_error: 2.41061117/4840 [=====>........................] - ETA: 3s - loss: 19.7967 - mean\_absolute\_error: 2.41941177/4840 [======>.......................] - ETA: 3s - loss: 19.8090 - mean\_absolute\_error: 2.42101236/4840 [======>.......................] - ETA: 3s - loss: 19.8205 - mean\_absolute\_error: 2.42321295/4840 [=======>......................] - ETA: 3s - loss: 19.8568 - mean\_absolute\_error: 2.42721354/4840 [=======>......................] - ETA: 2s - loss: 19.8428 - mean\_absolute\_error: 2.42681413/4840 [=======>......................] - ETA: 2s - loss: 19.8518 - mean\_absolute\_error: 2.42801471/4840 [========>.....................] - ETA: 2s - loss: 19.8295 - mean\_absolute\_error: 2.42621529/4840 [========>.....................] - ETA: 2s - loss: 19.8383 - mean\_absolute\_error: 2.42701586/4840 [========>.....................] - ETA: 2s - loss: 19.8664 - mean\_absolute\_error: 2.43141645/4840 [=========>....................] - ETA: 2s - loss: 19.8894 - mean\_absolute\_error: 2.43481703/4840 [=========>....................] - ETA: 2s - loss: 19.8627 - mean\_absolute\_error: 2.43171763/4840 [=========>....................] - ETA: 2s - loss: 19.8385 - mean\_absolute\_error: 2.42991821/4840 [==========>...................] - ETA: 2s - loss: 19.8103 - mean\_absolute\_error: 2.42661880/4840 [==========>...................] - ETA: 2s - loss: 19.7627 - mean\_absolute\_error: 2.42251939/4840 [===========>..................] - ETA: 2s - loss: 19.7401 - mean\_absolute\_error: 2.42041997/4840 [===========>..................] - ETA: 2s - loss: 19.7555 - mean\_absolute\_error: 2.42282050/4840 [===========>..................] - ETA: 2s - loss: 19.7212 - mean\_absolute\_error: 2.42002102/4840 [============>.................] - ETA: 2s - loss: 19.7274 - mean\_absolute\_error: 2.42162160/4840 [============>.................] - ETA: 2s - loss: 19.7393 - mean\_absolute\_error: 2.42372218/4840 [============>.................] - ETA: 2s - loss: 19.7408 - mean\_absolute\_error: 2.42482278/4840 [=============>................] - ETA: 2s - loss: 19.7252 - mean\_absolute\_error: 2.42372337/4840 [=============>................] - ETA: 2s - loss: 19.7369 - mean\_absolute\_error: 2.42582395/4840 [=============>................] - ETA: 2s - loss: 19.7219 - mean\_absolute\_error: 2.42422456/4840 [==============>...............] - ETA: 2s - loss: 19.6978 - mean\_absolute\_error: 2.42262515/4840 [==============>...............] - ETA: 2s - loss: 19.7192 - mean\_absolute\_error: 2.42632572/4840 [==============>...............] - ETA: 1s - loss: 19.7374 - mean\_absolute\_error: 2.42952632/4840 [===============>..............] - ETA: 1s - loss: 19.7552 - mean\_absolute\_error: 2.43242691/4840 [===============>..............] - ETA: 1s - loss: 19.7809 - mean\_absolute\_error: 2.43592750/4840 [================>.............] - ETA: 1s - loss: 19.7778 - mean\_absolute\_error: 2.43652810/4840 [================>.............] - ETA: 1s - loss: 19.7669 - mean\_absolute\_error: 2.43552870/4840 [================>.............] - ETA: 1s - loss: 19.7423 - mean\_absolute\_error: 2.43372930/4840 [=================>............] - ETA: 1s - loss: 19.7266 - mean\_absolute\_error: 2.43292987/4840 [=================>............] - ETA: 1s - loss: 19.7211 - mean\_absolute\_error: 2.43353047/4840 [=================>............] - ETA: 1s - loss: 19.7194 - mean\_absolute\_error: 2.43493107/4840 [==================>...........] - ETA: 1s - loss: 19.7249 - mean\_absolute\_error: 2.43633168/4840 [==================>...........] - ETA: 1s - loss: 19.7091 - mean\_absolute\_error: 2.43563227/4840 [===================>..........] - ETA: 1s - loss: 19.7112 - mean\_absolute\_error: 2.43653287/4840 [===================>..........] - ETA: 1s - loss: 19.7127 - mean\_absolute\_error: 2.43723345/4840 [===================>..........] - ETA: 1s - loss: 19.7122 - mean\_absolute\_error: 2.43803402/4840 [====================>.........] - ETA: 1s - loss: 19.7093 - mean\_absolute\_error: 2.43873459/4840 [====================>.........] - ETA: 1s - loss: 19.7086 - mean\_absolute\_error: 2.43953519/4840 [====================>.........] - ETA: 1s - loss: 19.7134 - mean\_absolute\_error: 2.44043578/4840 [=====================>........] - ETA: 1s - loss: 19.7158 - mean\_absolute\_error: 2.44163639/4840 [=====================>........] - ETA: 1s - loss: 19.6991 - mean\_absolute\_error: 2.44123697/4840 [=====================>........] - ETA: 0s - loss: 19.6688 - mean\_absolute\_error: 2.43863758/4840 [======================>.......] - ETA: 0s - loss: 19.6643 - mean\_absolute\_error: 2.43873818/4840 [======================>.......] - ETA: 0s - loss: 19.6519 - mean\_absolute\_error: 2.43813877/4840 [=======================>......] - ETA: 0s - loss: 19.6619 - mean\_absolute\_error: 2.43973937/4840 [=======================>......] - ETA: 0s - loss: 19.6500 - mean\_absolute\_error: 2.43923997/4840 [=======================>......] - ETA: 0s - loss: 19.6335 - mean\_absolute\_error: 2.43824057/4840 [========================>.....] - ETA: 0s - loss: 19.6187 - mean\_absolute\_error: 2.43754117/4840 [========================>.....] - ETA: 0s - loss: 19.5992 - mean\_absolute\_error: 2.43624176/4840 [========================>.....] - ETA: 0s - loss: 19.5791 - mean\_absolute\_error: 2.43544228/4840 [=========================>....] - ETA: 0s - loss: 19.5695 - mean\_absolute\_error: 2.43524275/4840 [=========================>....] - ETA: 0s - loss: 19.5504 - mean\_absolute\_error: 2.43404332/4840 [=========================>....] - ETA: 0s - loss: 19.5438 - mean\_absolute\_error: 2.43424390/4840 [==========================>...] - ETA: 0s - loss: 19.5493 - mean\_absolute\_error: 2.43564445/4840 [==========================>...] - ETA: 0s - loss: 19.5525 - mean\_absolute\_error: 2.43634501/4840 [==========================>...] - ETA: 0s - loss: 19.5223 - mean\_absolute\_error: 2.43384558/4840 [===========================>..] - ETA: 0s - loss: 19.5229 - mean\_absolute\_error: 2.43494616/4840 [===========================>..] - ETA: 0s - loss: 19.5143 - mean\_absolute\_error: 2.43464675/4840 [===========================>..] - ETA: 0s - loss: 19.5189 - mean\_absolute\_error: 2.43584733/4840 [============================>.] - ETA: 0s - loss: 19.5292 - mean\_absolute\_error: 2.43764791/4840 [============================>.] - ETA: 0s - loss: 19.5249 - mean\_absolute\_error: 2.43814840/4840 [==============================] - 4s 909us/step - loss: 19.5176 - mean\_absolute\_error: 2.4383 - val\_loss: 18.8624 - val\_mean\_absolute\_error: 2.4391  
Epoch 3/100  
 1/4840 [..............................] - ETA: 9s - loss: 29.0817 - mean\_absolute\_error: 3.4193 53/4840 [..............................] - ETA: 4s - loss: 19.0505 - mean\_absolute\_error: 2.4744 74/4840 [..............................] - ETA: 6s - loss: 19.3223 - mean\_absolute\_error: 2.5047 109/4840 [..............................] - ETA: 6s - loss: 19.1922 - mean\_absolute\_error: 2.4913 152/4840 [..............................] - ETA: 6s - loss: 19.6285 - mean\_absolute\_error: 2.5392 194/4840 [>.............................] - ETA: 6s - loss: 19.4581 - mean\_absolute\_error: 2.5175 240/4840 [>.............................] - ETA: 5s - loss: 19.3005 - mean\_absolute\_error: 2.4966 260/4840 [>.............................] - ETA: 6s - loss: 19.3719 - mean\_absolute\_error: 2.5049 289/4840 [>.............................] - ETA: 6s - loss: 19.1879 - mean\_absolute\_error: 2.4821 331/4840 [=>............................] - ETA: 6s - loss: 19.2710 - mean\_absolute\_error: 2.4951 377/4840 [=>............................] - ETA: 6s - loss: 19.2023 - mean\_absolute\_error: 2.4872 426/4840 [=>............................] - ETA: 5s - loss: 19.2194 - mean\_absolute\_error: 2.4866 472/4840 [=>............................] - ETA: 5s - loss: 19.1920 - mean\_absolute\_error: 2.4847 521/4840 [==>...........................] - ETA: 5s - loss: 19.2366 - mean\_absolute\_error: 2.4909 569/4840 [==>...........................] - ETA: 5s - loss: 19.2881 - mean\_absolute\_error: 2.4977 617/4840 [==>...........................] - ETA: 5s - loss: 19.3410 - mean\_absolute\_error: 2.5048 668/4840 [===>..........................] - ETA: 5s - loss: 19.3297 - mean\_absolute\_error: 2.5034 718/4840 [===>..........................] - ETA: 4s - loss: 19.2514 - mean\_absolute\_error: 2.4967 767/4840 [===>..........................] - ETA: 4s - loss: 19.2222 - mean\_absolute\_error: 2.4949 805/4840 [===>..........................] - ETA: 4s - loss: 19.1558 - mean\_absolute\_error: 2.4875 848/4840 [====>.........................] - ETA: 4s - loss: 19.1120 - mean\_absolute\_error: 2.4835 906/4840 [====>.........................] - ETA: 4s - loss: 19.0497 - mean\_absolute\_error: 2.4765 964/4840 [====>.........................] - ETA: 4s - loss: 19.0246 - mean\_absolute\_error: 2.47401023/4840 [=====>........................] - ETA: 4s - loss: 19.0234 - mean\_absolute\_error: 2.47471081/4840 [=====>........................] - ETA: 4s - loss: 19.0125 - mean\_absolute\_error: 2.47421140/4840 [======>.......................] - ETA: 4s - loss: 18.9824 - mean\_absolute\_error: 2.47141200/4840 [======>.......................] - ETA: 3s - loss: 18.9759 - mean\_absolute\_error: 2.47151259/4840 [======>.......................] - ETA: 3s - loss: 18.9591 - mean\_absolute\_error: 2.47121318/4840 [=======>......................] - ETA: 3s - loss: 18.9530 - mean\_absolute\_error: 2.47201374/4840 [=======>......................] - ETA: 3s - loss: 18.9772 - mean\_absolute\_error: 2.47631431/4840 [=======>......................] - ETA: 3s - loss: 18.9116 - mean\_absolute\_error: 2.46981490/4840 [========>.....................] - ETA: 3s - loss: 18.8878 - mean\_absolute\_error: 2.46841549/4840 [========>.....................] - ETA: 3s - loss: 18.8869 - mean\_absolute\_error: 2.46961608/4840 [========>.....................] - ETA: 3s - loss: 18.8789 - mean\_absolute\_error: 2.46951667/4840 [=========>....................] - ETA: 3s - loss: 18.8294 - mean\_absolute\_error: 2.46531726/4840 [=========>....................] - ETA: 3s - loss: 18.8267 - mean\_absolute\_error: 2.46681783/4840 [==========>...................] - ETA: 3s - loss: 18.8269 - mean\_absolute\_error: 2.46791843/4840 [==========>...................] - ETA: 3s - loss: 18.8133 - mean\_absolute\_error: 2.46831901/4840 [==========>...................] - ETA: 2s - loss: 18.8283 - mean\_absolute\_error: 2.47161960/4840 [===========>..................] - ETA: 2s - loss: 18.8355 - mean\_absolute\_error: 2.47442014/4840 [===========>..................] - ETA: 2s - loss: 18.8420 - mean\_absolute\_error: 2.47622071/4840 [===========>..................] - ETA: 2s - loss: 18.8376 - mean\_absolute\_error: 2.47712130/4840 [============>.................] - ETA: 2s - loss: 18.8603 - mean\_absolute\_error: 2.48132186/4840 [============>.................] - ETA: 2s - loss: 18.8404 - mean\_absolute\_error: 2.47992245/4840 [============>.................] - ETA: 2s - loss: 18.8499 - mean\_absolute\_error: 2.48232304/4840 [=============>................] - ETA: 2s - loss: 18.8286 - mean\_absolute\_error: 2.48162364/4840 [=============>................] - ETA: 2s - loss: 18.8227 - mean\_absolute\_error: 2.48132422/4840 [==============>...............] - ETA: 2s - loss: 18.8324 - mean\_absolute\_error: 2.48372481/4840 [==============>...............] - ETA: 2s - loss: 18.8074 - mean\_absolute\_error: 2.48202537/4840 [==============>...............] - ETA: 2s - loss: 18.8046 - mean\_absolute\_error: 2.48322594/4840 [===============>..............] - ETA: 2s - loss: 18.8066 - mean\_absolute\_error: 2.48492653/4840 [===============>..............] - ETA: 2s - loss: 18.8103 - mean\_absolute\_error: 2.48662711/4840 [===============>..............] - ETA: 2s - loss: 18.7981 - mean\_absolute\_error: 2.48702770/4840 [================>.............] - ETA: 2s - loss: 18.7599 - mean\_absolute\_error: 2.48372829/4840 [================>.............] - ETA: 1s - loss: 18.7658 - mean\_absolute\_error: 2.48522887/4840 [================>.............] - ETA: 1s - loss: 18.7352 - mean\_absolute\_error: 2.48292945/4840 [=================>............] - ETA: 1s - loss: 18.7102 - mean\_absolute\_error: 2.48103004/4840 [=================>............] - ETA: 1s - loss: 18.6836 - mean\_absolute\_error: 2.47943063/4840 [=================>............] - ETA: 1s - loss: 18.6631 - mean\_absolute\_error: 2.47843122/4840 [==================>...........] - ETA: 1s - loss: 18.6678 - mean\_absolute\_error: 2.48013179/4840 [==================>...........] - ETA: 1s - loss: 18.6980 - mean\_absolute\_error: 2.48473236/4840 [===================>..........] - ETA: 1s - loss: 18.7004 - mean\_absolute\_error: 2.48583294/4840 [===================>..........] - ETA: 1s - loss: 18.6990 - mean\_absolute\_error: 2.48673353/4840 [===================>..........] - ETA: 1s - loss: 18.6868 - mean\_absolute\_error: 2.48653412/4840 [====================>.........] - ETA: 1s - loss: 18.6735 - mean\_absolute\_error: 2.48673470/4840 [====================>.........] - ETA: 1s - loss: 18.6533 - mean\_absolute\_error: 2.48553529/4840 [====================>.........] - ETA: 1s - loss: 18.6416 - mean\_absolute\_error: 2.48583588/4840 [=====================>........] - ETA: 1s - loss: 18.6077 - mean\_absolute\_error: 2.48333647/4840 [=====================>........] - ETA: 1s - loss: 18.5927 - mean\_absolute\_error: 2.48323702/4840 [=====================>........] - ETA: 1s - loss: 18.5753 - mean\_absolute\_error: 2.48263755/4840 [======================>.......] - ETA: 1s - loss: 18.5487 - mean\_absolute\_error: 2.48073812/4840 [======================>.......] - ETA: 0s - loss: 18.5461 - mean\_absolute\_error: 2.48163870/4840 [======================>.......] - ETA: 0s - loss: 18.5297 - mean\_absolute\_error: 2.48163929/4840 [=======================>......] - ETA: 0s - loss: 18.5088 - mean\_absolute\_error: 2.48033988/4840 [=======================>......] - ETA: 0s - loss: 18.4980 - mean\_absolute\_error: 2.48024046/4840 [========================>.....] - ETA: 0s - loss: 18.4935 - mean\_absolute\_error: 2.48124105/4840 [========================>.....] - ETA: 0s - loss: 18.4786 - mean\_absolute\_error: 2.48064164/4840 [========================>.....] - ETA: 0s - loss: 18.4568 - mean\_absolute\_error: 2.47974222/4840 [=========================>....] - ETA: 0s - loss: 18.4373 - mean\_absolute\_error: 2.47854281/4840 [=========================>....] - ETA: 0s - loss: 18.4319 - mean\_absolute\_error: 2.47924340/4840 [=========================>....] - ETA: 0s - loss: 18.4322 - mean\_absolute\_error: 2.48074399/4840 [==========================>...] - ETA: 0s - loss: 18.4322 - mean\_absolute\_error: 2.48214457/4840 [==========================>...] - ETA: 0s - loss: 18.4259 - mean\_absolute\_error: 2.48284514/4840 [==========================>...] - ETA: 0s - loss: 18.4109 - mean\_absolute\_error: 2.48214572/4840 [===========================>..] - ETA: 0s - loss: 18.3999 - mean\_absolute\_error: 2.48214631/4840 [===========================>..] - ETA: 0s - loss: 18.3945 - mean\_absolute\_error: 2.48304689/4840 [============================>.] - ETA: 0s - loss: 18.3753 - mean\_absolute\_error: 2.48184748/4840 [============================>.] - ETA: 0s - loss: 18.3736 - mean\_absolute\_error: 2.48324806/4840 [============================>.] - ETA: 0s - loss: 18.3509 - mean\_absolute\_error: 2.48204840/4840 [==============================] - 5s 965us/step - loss: 18.3448 - mean\_absolute\_error: 2.4820 - val\_loss: 17.5807 - val\_mean\_absolute\_error: 2.4952  
Epoch 4/100  
 1/4840 [..............................] - ETA: 4s - loss: 12.4210 - mean\_absolute\_error: 1.8704 60/4840 [..............................] - ETA: 4s - loss: 17.8901 - mean\_absolute\_error: 2.5499 119/4840 [..............................] - ETA: 4s - loss: 17.7189 - mean\_absolute\_error: 2.5252 176/4840 [>.............................] - ETA: 4s - loss: 17.6464 - mean\_absolute\_error: 2.5092 235/4840 [>.............................] - ETA: 3s - loss: 17.5799 - mean\_absolute\_error: 2.5046 295/4840 [>.............................] - ETA: 3s - loss: 17.6731 - mean\_absolute\_error: 2.5239 354/4840 [=>............................] - ETA: 3s - loss: 17.7050 - mean\_absolute\_error: 2.5281 412/4840 [=>............................] - ETA: 3s - loss: 17.5005 - mean\_absolute\_error: 2.5032 469/4840 [=>............................] - ETA: 3s - loss: 17.5791 - mean\_absolute\_error: 2.5111 526/4840 [==>...........................] - ETA: 3s - loss: 17.6023 - mean\_absolute\_error: 2.5171 580/4840 [==>...........................] - ETA: 3s - loss: 17.5396 - mean\_absolute\_error: 2.5099 640/4840 [==>...........................] - ETA: 3s - loss: 17.4955 - mean\_absolute\_error: 2.5052 698/4840 [===>..........................] - ETA: 3s - loss: 17.5032 - mean\_absolute\_error: 2.5063 756/4840 [===>..........................] - ETA: 3s - loss: 17.5070 - mean\_absolute\_error: 2.5089 798/4840 [===>..........................] - ETA: 3s - loss: 17.5375 - mean\_absolute\_error: 2.5123 845/4840 [====>.........................] - ETA: 3s - loss: 17.5240 - mean\_absolute\_error: 2.5118 885/4840 [====>.........................] - ETA: 3s - loss: 17.5741 - mean\_absolute\_error: 2.5189 931/4840 [====>.........................] - ETA: 3s - loss: 17.5525 - mean\_absolute\_error: 2.5170 987/4840 [=====>........................] - ETA: 3s - loss: 17.5138 - mean\_absolute\_error: 2.51201036/4840 [=====>........................] - ETA: 3s - loss: 17.5242 - mean\_absolute\_error: 2.51541086/4840 [=====>........................] - ETA: 3s - loss: 17.5186 - mean\_absolute\_error: 2.51421136/4840 [======>.......................] - ETA: 3s - loss: 17.5524 - mean\_absolute\_error: 2.51891187/4840 [======>.......................] - ETA: 3s - loss: 17.5404 - mean\_absolute\_error: 2.51741238/4840 [======>.......................] - ETA: 3s - loss: 17.5182 - mean\_absolute\_error: 2.51601285/4840 [======>.......................] - ETA: 3s - loss: 17.4975 - mean\_absolute\_error: 2.51381335/4840 [=======>......................] - ETA: 3s - loss: 17.5304 - mean\_absolute\_error: 2.51901385/4840 [=======>......................] - ETA: 3s - loss: 17.4821 - mean\_absolute\_error: 2.51351437/4840 [=======>......................] - ETA: 3s - loss: 17.4414 - mean\_absolute\_error: 2.50991489/4840 [========>.....................] - ETA: 3s - loss: 17.4567 - mean\_absolute\_error: 2.51311521/4840 [========>.....................] - ETA: 3s - loss: 17.4231 - mean\_absolute\_error: 2.51011554/4840 [========>.....................] - ETA: 3s - loss: 17.4268 - mean\_absolute\_error: 2.51201601/4840 [========>.....................] - ETA: 3s - loss: 17.4389 - mean\_absolute\_error: 2.51431660/4840 [=========>....................] - ETA: 3s - loss: 17.4392 - mean\_absolute\_error: 2.51611719/4840 [=========>....................] - ETA: 3s - loss: 17.4250 - mean\_absolute\_error: 2.51521777/4840 [==========>...................] - ETA: 2s - loss: 17.3975 - mean\_absolute\_error: 2.51331836/4840 [==========>...................] - ETA: 2s - loss: 17.3937 - mean\_absolute\_error: 2.51381894/4840 [==========>...................] - ETA: 2s - loss: 17.3929 - mean\_absolute\_error: 2.51461952/4840 [===========>..................] - ETA: 2s - loss: 17.3800 - mean\_absolute\_error: 2.51512010/4840 [===========>..................] - ETA: 2s - loss: 17.3766 - mean\_absolute\_error: 2.51622062/4840 [===========>..................] - ETA: 2s - loss: 17.3578 - mean\_absolute\_error: 2.51532108/4840 [============>.................] - ETA: 2s - loss: 17.3612 - mean\_absolute\_error: 2.51652156/4840 [============>.................] - ETA: 2s - loss: 17.3602 - mean\_absolute\_error: 2.51742198/4840 [============>.................] - ETA: 2s - loss: 17.3586 - mean\_absolute\_error: 2.51852242/4840 [============>.................] - ETA: 2s - loss: 17.3709 - mean\_absolute\_error: 2.52072284/4840 [=============>................] - ETA: 2s - loss: 17.3665 - mean\_absolute\_error: 2.52072335/4840 [=============>................] - ETA: 2s - loss: 17.3375 - mean\_absolute\_error: 2.51852393/4840 [=============>................] - ETA: 2s - loss: 17.3132 - mean\_absolute\_error: 2.51702450/4840 [==============>...............] - ETA: 2s - loss: 17.3190 - mean\_absolute\_error: 2.51892508/4840 [==============>...............] - ETA: 2s - loss: 17.3162 - mean\_absolute\_error: 2.52052565/4840 [==============>...............] - ETA: 2s - loss: 17.3310 - mean\_absolute\_error: 2.52372623/4840 [===============>..............] - ETA: 2s - loss: 17.3260 - mean\_absolute\_error: 2.52402681/4840 [===============>..............] - ETA: 2s - loss: 17.3048 - mean\_absolute\_error: 2.52232740/4840 [===============>..............] - ETA: 2s - loss: 17.2940 - mean\_absolute\_error: 2.52232798/4840 [================>.............] - ETA: 1s - loss: 17.2847 - mean\_absolute\_error: 2.52282856/4840 [================>.............] - ETA: 1s - loss: 17.2678 - mean\_absolute\_error: 2.52252914/4840 [=================>............] - ETA: 1s - loss: 17.2432 - mean\_absolute\_error: 2.52132970/4840 [=================>............] - ETA: 1s - loss: 17.2397 - mean\_absolute\_error: 2.52213028/4840 [=================>............] - ETA: 1s - loss: 17.2275 - mean\_absolute\_error: 2.52203087/4840 [==================>...........] - ETA: 1s - loss: 17.2084 - mean\_absolute\_error: 2.52143145/4840 [==================>...........] - ETA: 1s - loss: 17.2010 - mean\_absolute\_error: 2.52183202/4840 [==================>...........] - ETA: 1s - loss: 17.1745 - mean\_absolute\_error: 2.51963260/4840 [===================>..........] - ETA: 1s - loss: 17.1761 - mean\_absolute\_error: 2.52083318/4840 [===================>..........] - ETA: 1s - loss: 17.1713 - mean\_absolute\_error: 2.52173376/4840 [===================>..........] - ETA: 1s - loss: 17.1566 - mean\_absolute\_error: 2.52113434/4840 [====================>.........] - ETA: 1s - loss: 17.1523 - mean\_absolute\_error: 2.52173492/4840 [====================>.........] - ETA: 1s - loss: 17.1509 - mean\_absolute\_error: 2.52313551/4840 [=====================>........] - ETA: 1s - loss: 17.1594 - mean\_absolute\_error: 2.52553609/4840 [=====================>........] - ETA: 1s - loss: 17.1500 - mean\_absolute\_error: 2.52563668/4840 [=====================>........] - ETA: 1s - loss: 17.1384 - mean\_absolute\_error: 2.52533725/4840 [======================>.......] - ETA: 1s - loss: 17.1131 - mean\_absolute\_error: 2.52353782/4840 [======================>.......] - ETA: 0s - loss: 17.1116 - mean\_absolute\_error: 2.52443841/4840 [======================>.......] - ETA: 0s - loss: 17.1112 - mean\_absolute\_error: 2.52543899/4840 [=======================>......] - ETA: 0s - loss: 17.0997 - mean\_absolute\_error: 2.52533958/4840 [=======================>......] - ETA: 0s - loss: 17.0817 - mean\_absolute\_error: 2.52434017/4840 [=======================>......] - ETA: 0s - loss: 17.0900 - mean\_absolute\_error: 2.52664075/4840 [========================>.....] - ETA: 0s - loss: 17.0733 - mean\_absolute\_error: 2.52584132/4840 [========================>.....] - ETA: 0s - loss: 17.0499 - mean\_absolute\_error: 2.52444190/4840 [========================>.....] - ETA: 0s - loss: 17.0530 - mean\_absolute\_error: 2.52604246/4840 [=========================>....] - ETA: 0s - loss: 17.0326 - mean\_absolute\_error: 2.52494300/4840 [=========================>....] - ETA: 0s - loss: 17.0331 - mean\_absolute\_error: 2.52604350/4840 [=========================>....] - ETA: 0s - loss: 17.0288 - mean\_absolute\_error: 2.52664397/4840 [==========================>...] - ETA: 0s - loss: 17.0150 - mean\_absolute\_error: 2.52604445/4840 [==========================>...] - ETA: 0s - loss: 17.0165 - mean\_absolute\_error: 2.52754497/4840 [==========================>...] - ETA: 0s - loss: 17.0073 - mean\_absolute\_error: 2.52714554/4840 [===========================>..] - ETA: 0s - loss: 17.0144 - mean\_absolute\_error: 2.52914611/4840 [===========================>..] - ETA: 0s - loss: 17.0074 - mean\_absolute\_error: 2.52934668/4840 [===========================>..] - ETA: 0s - loss: 17.0040 - mean\_absolute\_error: 2.52994720/4840 [============================>.] - ETA: 0s - loss: 16.9990 - mean\_absolute\_error: 2.53044776/4840 [============================>.] - ETA: 0s - loss: 16.9888 - mean\_absolute\_error: 2.53074831/4840 [============================>.] - ETA: 0s - loss: 16.9642 - mean\_absolute\_error: 2.52934840/4840 [==============================] - 5s 971us/step - loss: 16.9602 - mean\_absolute\_error: 2.5290 - val\_loss: 16.3325 - val\_mean\_absolute\_error: 2.5495  
Epoch 5/100  
 1/4840 [..............................] - ETA: 9s - loss: 13.6865 - mean\_absolute\_error: 2.2036 60/4840 [..............................] - ETA: 4s - loss: 17.3366 - mean\_absolute\_error: 2.6604 115/4840 [..............................] - ETA: 4s - loss: 16.5806 - mean\_absolute\_error: 2.5885 172/4840 [>.............................] - ETA: 4s - loss: 16.2684 - mean\_absolute\_error: 2.5575 230/4840 [>.............................] - ETA: 4s - loss: 16.1349 - mean\_absolute\_error: 2.5317 287/4840 [>.............................] - ETA: 4s - loss: 16.0835 - mean\_absolute\_error: 2.5247 344/4840 [=>............................] - ETA: 3s - loss: 16.0715 - mean\_absolute\_error: 2.5293 401/4840 [=>............................] - ETA: 3s - loss: 16.0054 - mean\_absolute\_error: 2.5242 458/4840 [=>............................] - ETA: 3s - loss: 16.0363 - mean\_absolute\_error: 2.5269 516/4840 [==>...........................] - ETA: 3s - loss: 16.1997 - mean\_absolute\_error: 2.5458 573/4840 [==>...........................] - ETA: 3s - loss: 16.1449 - mean\_absolute\_error: 2.5411 630/4840 [==>...........................] - ETA: 3s - loss: 16.0840 - mean\_absolute\_error: 2.5348 686/4840 [===>..........................] - ETA: 3s - loss: 16.0850 - mean\_absolute\_error: 2.5349 743/4840 [===>..........................] - ETA: 3s - loss: 16.0930 - mean\_absolute\_error: 2.5384 801/4840 [===>..........................] - ETA: 3s - loss: 16.1100 - mean\_absolute\_error: 2.5397 857/4840 [====>.........................] - ETA: 3s - loss: 16.1600 - mean\_absolute\_error: 2.5477 913/4840 [====>.........................] - ETA: 3s - loss: 16.1749 - mean\_absolute\_error: 2.5495 969/4840 [=====>........................] - ETA: 3s - loss: 16.1338 - mean\_absolute\_error: 2.54601026/4840 [=====>........................] - ETA: 3s - loss: 16.1219 - mean\_absolute\_error: 2.54561084/4840 [=====>........................] - ETA: 3s - loss: 16.1027 - mean\_absolute\_error: 2.54581141/4840 [======>.......................] - ETA: 3s - loss: 16.1151 - mean\_absolute\_error: 2.54681195/4840 [======>.......................] - ETA: 3s - loss: 16.0713 - mean\_absolute\_error: 2.54281248/4840 [======>.......................] - ETA: 3s - loss: 16.0661 - mean\_absolute\_error: 2.54361304/4840 [=======>......................] - ETA: 3s - loss: 16.0203 - mean\_absolute\_error: 2.54031361/4840 [=======>......................] - ETA: 3s - loss: 15.9784 - mean\_absolute\_error: 2.53561418/4840 [=======>......................] - ETA: 3s - loss: 15.9122 - mean\_absolute\_error: 2.52901474/4840 [========>.....................] - ETA: 2s - loss: 15.9166 - mean\_absolute\_error: 2.53121530/4840 [========>.....................] - ETA: 2s - loss: 15.8929 - mean\_absolute\_error: 2.52961586/4840 [========>.....................] - ETA: 2s - loss: 15.8824 - mean\_absolute\_error: 2.52951643/4840 [=========>....................] - ETA: 2s - loss: 15.8979 - mean\_absolute\_error: 2.53251701/4840 [=========>....................] - ETA: 2s - loss: 15.8806 - mean\_absolute\_error: 2.53121759/4840 [=========>....................] - ETA: 2s - loss: 15.8756 - mean\_absolute\_error: 2.53241817/4840 [==========>...................] - ETA: 2s - loss: 15.8601 - mean\_absolute\_error: 2.53161874/4840 [==========>...................] - ETA: 2s - loss: 15.8575 - mean\_absolute\_error: 2.53221932/4840 [==========>...................] - ETA: 2s - loss: 15.9031 - mean\_absolute\_error: 2.53791989/4840 [===========>..................] - ETA: 2s - loss: 15.9050 - mean\_absolute\_error: 2.54012045/4840 [===========>..................] - ETA: 2s - loss: 15.9100 - mean\_absolute\_error: 2.54192101/4840 [============>.................] - ETA: 2s - loss: 15.9216 - mean\_absolute\_error: 2.54392159/4840 [============>.................] - ETA: 2s - loss: 15.9178 - mean\_absolute\_error: 2.54472216/4840 [============>.................] - ETA: 2s - loss: 15.8939 - mean\_absolute\_error: 2.54382274/4840 [=============>................] - ETA: 2s - loss: 15.8884 - mean\_absolute\_error: 2.54462332/4840 [=============>................] - ETA: 2s - loss: 15.8645 - mean\_absolute\_error: 2.54312387/4840 [=============>................] - ETA: 2s - loss: 15.8664 - mean\_absolute\_error: 2.54432443/4840 [==============>...............] - ETA: 2s - loss: 15.8593 - mean\_absolute\_error: 2.54422501/4840 [==============>...............] - ETA: 2s - loss: 15.8515 - mean\_absolute\_error: 2.54452558/4840 [==============>...............] - ETA: 2s - loss: 15.8444 - mean\_absolute\_error: 2.54532615/4840 [===============>..............] - ETA: 1s - loss: 15.8235 - mean\_absolute\_error: 2.54352672/4840 [===============>..............] - ETA: 1s - loss: 15.8010 - mean\_absolute\_error: 2.54242729/4840 [===============>..............] - ETA: 1s - loss: 15.8009 - mean\_absolute\_error: 2.54382786/4840 [================>.............] - ETA: 1s - loss: 15.7978 - mean\_absolute\_error: 2.54462844/4840 [================>.............] - ETA: 1s - loss: 15.7901 - mean\_absolute\_error: 2.54462901/4840 [================>.............] - ETA: 1s - loss: 15.7879 - mean\_absolute\_error: 2.54472959/4840 [=================>............] - ETA: 1s - loss: 15.7756 - mean\_absolute\_error: 2.54413016/4840 [=================>............] - ETA: 1s - loss: 15.7918 - mean\_absolute\_error: 2.54733074/4840 [==================>...........] - ETA: 1s - loss: 15.7869 - mean\_absolute\_error: 2.54773130/4840 [==================>...........] - ETA: 1s - loss: 15.7978 - mean\_absolute\_error: 2.54983187/4840 [==================>...........] - ETA: 1s - loss: 15.7724 - mean\_absolute\_error: 2.54813245/4840 [===================>..........] - ETA: 1s - loss: 15.7699 - mean\_absolute\_error: 2.54863301/4840 [===================>..........] - ETA: 1s - loss: 15.7820 - mean\_absolute\_error: 2.55063359/4840 [===================>..........] - ETA: 1s - loss: 15.7909 - mean\_absolute\_error: 2.55293417/4840 [====================>.........] - ETA: 1s - loss: 15.8039 - mean\_absolute\_error: 2.55553474/4840 [====================>.........] - ETA: 1s - loss: 15.8001 - mean\_absolute\_error: 2.55623529/4840 [====================>.........] - ETA: 1s - loss: 15.7924 - mean\_absolute\_error: 2.55593586/4840 [=====================>........] - ETA: 1s - loss: 15.7843 - mean\_absolute\_error: 2.55613644/4840 [=====================>........] - ETA: 1s - loss: 15.7803 - mean\_absolute\_error: 2.55693701/4840 [=====================>........] - ETA: 1s - loss: 15.7755 - mean\_absolute\_error: 2.55703759/4840 [======================>.......] - ETA: 0s - loss: 15.7697 - mean\_absolute\_error: 2.55703817/4840 [======================>.......] - ETA: 0s - loss: 15.7526 - mean\_absolute\_error: 2.55653873/4840 [=======================>......] - ETA: 0s - loss: 15.7452 - mean\_absolute\_error: 2.55683927/4840 [=======================>......] - ETA: 0s - loss: 15.7443 - mean\_absolute\_error: 2.55733983/4840 [=======================>......] - ETA: 0s - loss: 15.7457 - mean\_absolute\_error: 2.55834041/4840 [========================>.....] - ETA: 0s - loss: 15.7377 - mean\_absolute\_error: 2.55854098/4840 [========================>.....] - ETA: 0s - loss: 15.7513 - mean\_absolute\_error: 2.56084155/4840 [========================>.....] - ETA: 0s - loss: 15.7444 - mean\_absolute\_error: 2.56084211/4840 [=========================>....] - ETA: 0s - loss: 15.7485 - mean\_absolute\_error: 2.56204268/4840 [=========================>....] - ETA: 0s - loss: 15.7419 - mean\_absolute\_error: 2.56224325/4840 [=========================>....] - ETA: 0s - loss: 15.7467 - mean\_absolute\_error: 2.56404378/4840 [==========================>...] - ETA: 0s - loss: 15.7443 - mean\_absolute\_error: 2.56494435/4840 [==========================>...] - ETA: 0s - loss: 15.7396 - mean\_absolute\_error: 2.56554492/4840 [==========================>...] - ETA: 0s - loss: 15.7322 - mean\_absolute\_error: 2.56534549/4840 [===========================>..] - ETA: 0s - loss: 15.7190 - mean\_absolute\_error: 2.56464606/4840 [===========================>..] - ETA: 0s - loss: 15.7126 - mean\_absolute\_error: 2.56434662/4840 [===========================>..] - ETA: 0s - loss: 15.7019 - mean\_absolute\_error: 2.56404716/4840 [============================>.] - ETA: 0s - loss: 15.6976 - mean\_absolute\_error: 2.56454774/4840 [============================>.] - ETA: 0s - loss: 15.6993 - mean\_absolute\_error: 2.56564831/4840 [============================>.] - ETA: 0s - loss: 15.6823 - mean\_absolute\_error: 2.56444840/4840 [==============================] - 4s 929us/step - loss: 15.6792 - mean\_absolute\_error: 2.5642 - val\_loss: 15.2749 - val\_mean\_absolute\_error: 2.5912  
Epoch 6/100  
 1/4840 [..............................] - ETA: 9s - loss: 19.9718 - mean\_absolute\_error: 3.2071 58/4840 [..............................] - ETA: 4s - loss: 14.2731 - mean\_absolute\_error: 2.4666 116/4840 [..............................] - ETA: 4s - loss: 14.6911 - mean\_absolute\_error: 2.5008 173/4840 [>.............................] - ETA: 4s - loss: 14.6391 - mean\_absolute\_error: 2.5029 230/4840 [>.............................] - ETA: 4s - loss: 14.6251 - mean\_absolute\_error: 2.5042 288/4840 [>.............................] - ETA: 3s - loss: 14.5736 - mean\_absolute\_error: 2.5054 344/4840 [=>............................] - ETA: 3s - loss: 14.6264 - mean\_absolute\_error: 2.5146 403/4840 [=>............................] - ETA: 3s - loss: 14.5212 - mean\_absolute\_error: 2.5033 448/4840 [=>............................] - ETA: 3s - loss: 14.4252 - mean\_absolute\_error: 2.4950 491/4840 [==>...........................] - ETA: 4s - loss: 14.4955 - mean\_absolute\_error: 2.5051 545/4840 [==>...........................] - ETA: 3s - loss: 14.6588 - mean\_absolute\_error: 2.5267 601/4840 [==>...........................] - ETA: 3s - loss: 14.7376 - mean\_absolute\_error: 2.5387 656/4840 [===>..........................] - ETA: 3s - loss: 14.6540 - mean\_absolute\_error: 2.5298 712/4840 [===>..........................] - ETA: 3s - loss: 14.6307 - mean\_absolute\_error: 2.5281 768/4840 [===>..........................] - ETA: 3s - loss: 14.6222 - mean\_absolute\_error: 2.5301 824/4840 [====>.........................] - ETA: 3s - loss: 14.6933 - mean\_absolute\_error: 2.5385 883/4840 [====>.........................] - ETA: 3s - loss: 14.7294 - mean\_absolute\_error: 2.5434 940/4840 [====>.........................] - ETA: 3s - loss: 14.7372 - mean\_absolute\_error: 2.5448 997/4840 [=====>........................] - ETA: 3s - loss: 14.7808 - mean\_absolute\_error: 2.55021054/4840 [=====>........................] - ETA: 3s - loss: 14.8120 - mean\_absolute\_error: 2.55711111/4840 [=====>........................] - ETA: 3s - loss: 14.8061 - mean\_absolute\_error: 2.55751159/4840 [======>.......................] - ETA: 3s - loss: 14.7957 - mean\_absolute\_error: 2.55701202/4840 [======>.......................] - ETA: 3s - loss: 14.7944 - mean\_absolute\_error: 2.55711258/4840 [======>.......................] - ETA: 3s - loss: 14.7827 - mean\_absolute\_error: 2.55651314/4840 [=======>......................] - ETA: 3s - loss: 14.7706 - mean\_absolute\_error: 2.55621368/4840 [=======>......................] - ETA: 3s - loss: 14.7825 - mean\_absolute\_error: 2.55911425/4840 [=======>......................] - ETA: 3s - loss: 14.7874 - mean\_absolute\_error: 2.56051482/4840 [========>.....................] - ETA: 3s - loss: 14.8335 - mean\_absolute\_error: 2.56721540/4840 [========>.....................] - ETA: 3s - loss: 14.8485 - mean\_absolute\_error: 2.56941597/4840 [========>.....................] - ETA: 2s - loss: 14.8515 - mean\_absolute\_error: 2.57071654/4840 [=========>....................] - ETA: 2s - loss: 14.8533 - mean\_absolute\_error: 2.57131711/4840 [=========>....................] - ETA: 2s - loss: 14.8830 - mean\_absolute\_error: 2.57561766/4840 [=========>....................] - ETA: 2s - loss: 14.8766 - mean\_absolute\_error: 2.57611824/4840 [==========>...................] - ETA: 2s - loss: 14.8634 - mean\_absolute\_error: 2.57551870/4840 [==========>...................] - ETA: 2s - loss: 14.8734 - mean\_absolute\_error: 2.57701916/4840 [==========>...................] - ETA: 2s - loss: 14.8629 - mean\_absolute\_error: 2.57611972/4840 [===========>..................] - ETA: 2s - loss: 14.8541 - mean\_absolute\_error: 2.57592028/4840 [===========>..................] - ETA: 2s - loss: 14.8548 - mean\_absolute\_error: 2.57652085/4840 [===========>..................] - ETA: 2s - loss: 14.8457 - mean\_absolute\_error: 2.57632142/4840 [============>.................] - ETA: 2s - loss: 14.8322 - mean\_absolute\_error: 2.57582200/4840 [============>.................] - ETA: 2s - loss: 14.8154 - mean\_absolute\_error: 2.57432256/4840 [============>.................] - ETA: 2s - loss: 14.8250 - mean\_absolute\_error: 2.57542314/4840 [=============>................] - ETA: 2s - loss: 14.8016 - mean\_absolute\_error: 2.57362369/4840 [=============>................] - ETA: 2s - loss: 14.8136 - mean\_absolute\_error: 2.57592423/4840 [==============>...............] - ETA: 2s - loss: 14.8179 - mean\_absolute\_error: 2.57662478/4840 [==============>...............] - ETA: 2s - loss: 14.8133 - mean\_absolute\_error: 2.57692534/4840 [==============>...............] - ETA: 2s - loss: 14.8058 - mean\_absolute\_error: 2.57742591/4840 [===============>..............] - ETA: 2s - loss: 14.8230 - mean\_absolute\_error: 2.58042648/4840 [===============>..............] - ETA: 2s - loss: 14.8196 - mean\_absolute\_error: 2.58142705/4840 [===============>..............] - ETA: 1s - loss: 14.7920 - mean\_absolute\_error: 2.57872763/4840 [================>.............] - ETA: 1s - loss: 14.7715 - mean\_absolute\_error: 2.57702820/4840 [================>.............] - ETA: 1s - loss: 14.7704 - mean\_absolute\_error: 2.57722875/4840 [================>.............] - ETA: 1s - loss: 14.7624 - mean\_absolute\_error: 2.57672932/4840 [=================>............] - ETA: 1s - loss: 14.7463 - mean\_absolute\_error: 2.57602989/4840 [=================>............] - ETA: 1s - loss: 14.7522 - mean\_absolute\_error: 2.57733046/4840 [=================>............] - ETA: 1s - loss: 14.7452 - mean\_absolute\_error: 2.57733091/4840 [==================>...........] - ETA: 1s - loss: 14.7429 - mean\_absolute\_error: 2.57793136/4840 [==================>...........] - ETA: 1s - loss: 14.7252 - mean\_absolute\_error: 2.57653178/4840 [==================>...........] - ETA: 1s - loss: 14.7210 - mean\_absolute\_error: 2.57683210/4840 [==================>...........] - ETA: 1s - loss: 14.7071 - mean\_absolute\_error: 2.57573251/4840 [===================>..........] - ETA: 1s - loss: 14.6867 - mean\_absolute\_error: 2.57393300/4840 [===================>..........] - ETA: 1s - loss: 14.6919 - mean\_absolute\_error: 2.57503351/4840 [===================>..........] - ETA: 1s - loss: 14.6887 - mean\_absolute\_error: 2.57563404/4840 [====================>.........] - ETA: 1s - loss: 14.6875 - mean\_absolute\_error: 2.57623456/4840 [====================>.........] - ETA: 1s - loss: 14.7052 - mean\_absolute\_error: 2.57863498/4840 [====================>.........] - ETA: 1s - loss: 14.6988 - mean\_absolute\_error: 2.57843549/4840 [====================>.........] - ETA: 1s - loss: 14.7078 - mean\_absolute\_error: 2.58023600/4840 [=====================>........] - ETA: 1s - loss: 14.7009 - mean\_absolute\_error: 2.58003655/4840 [=====================>........] - ETA: 1s - loss: 14.6920 - mean\_absolute\_error: 2.57933711/4840 [======================>.......] - ETA: 1s - loss: 14.6776 - mean\_absolute\_error: 2.57913768/4840 [======================>.......] - ETA: 1s - loss: 14.6709 - mean\_absolute\_error: 2.57923824/4840 [======================>.......] - ETA: 0s - loss: 14.6698 - mean\_absolute\_error: 2.57993879/4840 [=======================>......] - ETA: 0s - loss: 14.6667 - mean\_absolute\_error: 2.58003935/4840 [=======================>......] - ETA: 0s - loss: 14.6603 - mean\_absolute\_error: 2.57983993/4840 [=======================>......] - ETA: 0s - loss: 14.6533 - mean\_absolute\_error: 2.57934050/4840 [========================>.....] - ETA: 0s - loss: 14.6421 - mean\_absolute\_error: 2.57924108/4840 [========================>.....] - ETA: 0s - loss: 14.6445 - mean\_absolute\_error: 2.58034165/4840 [========================>.....] - ETA: 0s - loss: 14.6407 - mean\_absolute\_error: 2.58074212/4840 [=========================>....] - ETA: 0s - loss: 14.6333 - mean\_absolute\_error: 2.58034260/4840 [=========================>....] - ETA: 0s - loss: 14.6372 - mean\_absolute\_error: 2.58164316/4840 [=========================>....] - ETA: 0s - loss: 14.6323 - mean\_absolute\_error: 2.58164371/4840 [==========================>...] - ETA: 0s - loss: 14.6192 - mean\_absolute\_error: 2.58094427/4840 [==========================>...] - ETA: 0s - loss: 14.6174 - mean\_absolute\_error: 2.58164484/4840 [==========================>...] - ETA: 0s - loss: 14.6146 - mean\_absolute\_error: 2.58244542/4840 [===========================>..] - ETA: 0s - loss: 14.6235 - mean\_absolute\_error: 2.58414597/4840 [===========================>..] - ETA: 0s - loss: 14.6199 - mean\_absolute\_error: 2.58454655/4840 [===========================>..] - ETA: 0s - loss: 14.6108 - mean\_absolute\_error: 2.58434712/4840 [============================>.] - ETA: 0s - loss: 14.6030 - mean\_absolute\_error: 2.58414770/4840 [============================>.] - ETA: 0s - loss: 14.6038 - mean\_absolute\_error: 2.58474827/4840 [============================>.] - ETA: 0s - loss: 14.5973 - mean\_absolute\_error: 2.58494840/4840 [==============================] - 5s 973us/step - loss: 14.5955 - mean\_absolute\_error: 2.5849 - val\_loss: 14.4219 - val\_mean\_absolute\_error: 2.6179  
Epoch 7/100  
 1/4840 [..............................] - ETA: 4s - loss: 23.2640 - mean\_absolute\_error: 3.7095 58/4840 [..............................] - ETA: 4s - loss: 14.3764 - mean\_absolute\_error: 2.6388 116/4840 [..............................] - ETA: 4s - loss: 13.8452 - mean\_absolute\_error: 2.5763 174/4840 [>.............................] - ETA: 4s - loss: 13.9823 - mean\_absolute\_error: 2.5878 232/4840 [>.............................] - ETA: 4s - loss: 14.0974 - mean\_absolute\_error: 2.6040 288/4840 [>.............................] - ETA: 3s - loss: 14.0926 - mean\_absolute\_error: 2.6011 346/4840 [=>............................] - ETA: 3s - loss: 14.0442 - mean\_absolute\_error: 2.5913 403/4840 [=>............................] - ETA: 3s - loss: 14.0806 - mean\_absolute\_error: 2.5948 454/4840 [=>............................] - ETA: 3s - loss: 14.0743 - mean\_absolute\_error: 2.5959 502/4840 [==>...........................] - ETA: 3s - loss: 14.0746 - mean\_absolute\_error: 2.5957 548/4840 [==>...........................] - ETA: 3s - loss: 13.9884 - mean\_absolute\_error: 2.5843 599/4840 [==>...........................] - ETA: 3s - loss: 13.9226 - mean\_absolute\_error: 2.5739 650/4840 [===>..........................] - ETA: 3s - loss: 13.8904 - mean\_absolute\_error: 2.5706 700/4840 [===>..........................] - ETA: 3s - loss: 13.8763 - mean\_absolute\_error: 2.5695 756/4840 [===>..........................] - ETA: 3s - loss: 13.9247 - mean\_absolute\_error: 2.5763 811/4840 [====>.........................] - ETA: 3s - loss: 13.8939 - mean\_absolute\_error: 2.5726 868/4840 [====>.........................] - ETA: 3s - loss: 13.8692 - mean\_absolute\_error: 2.5714 925/4840 [====>.........................] - ETA: 3s - loss: 13.9008 - mean\_absolute\_error: 2.5744 981/4840 [=====>........................] - ETA: 3s - loss: 13.8995 - mean\_absolute\_error: 2.57451035/4840 [=====>........................] - ETA: 3s - loss: 13.8408 - mean\_absolute\_error: 2.56781092/4840 [=====>........................] - ETA: 3s - loss: 13.8151 - mean\_absolute\_error: 2.56391147/4840 [======>.......................] - ETA: 3s - loss: 13.8521 - mean\_absolute\_error: 2.56831205/4840 [======>.......................] - ETA: 3s - loss: 13.8787 - mean\_absolute\_error: 2.57191262/4840 [======>.......................] - ETA: 3s - loss: 13.9295 - mean\_absolute\_error: 2.57991320/4840 [=======>......................] - ETA: 3s - loss: 13.8853 - mean\_absolute\_error: 2.57581376/4840 [=======>......................] - ETA: 3s - loss: 13.8785 - mean\_absolute\_error: 2.57641434/4840 [=======>......................] - ETA: 3s - loss: 13.8903 - mean\_absolute\_error: 2.57791491/4840 [========>.....................] - ETA: 3s - loss: 13.8758 - mean\_absolute\_error: 2.57701548/4840 [========>.....................] - ETA: 2s - loss: 13.8895 - mean\_absolute\_error: 2.58011605/4840 [========>.....................] - ETA: 2s - loss: 13.8541 - mean\_absolute\_error: 2.57671664/4840 [=========>....................] - ETA: 2s - loss: 13.8335 - mean\_absolute\_error: 2.57511720/4840 [=========>....................] - ETA: 2s - loss: 13.8605 - mean\_absolute\_error: 2.57801776/4840 [==========>...................] - ETA: 2s - loss: 13.8304 - mean\_absolute\_error: 2.57491832/4840 [==========>...................] - ETA: 2s - loss: 13.8509 - mean\_absolute\_error: 2.57811890/4840 [==========>...................] - ETA: 2s - loss: 13.8366 - mean\_absolute\_error: 2.57681947/4840 [===========>..................] - ETA: 2s - loss: 13.8359 - mean\_absolute\_error: 2.57752005/4840 [===========>..................] - ETA: 2s - loss: 13.8138 - mean\_absolute\_error: 2.57562063/4840 [===========>..................] - ETA: 2s - loss: 13.7977 - mean\_absolute\_error: 2.57402120/4840 [============>.................] - ETA: 2s - loss: 13.8184 - mean\_absolute\_error: 2.57662177/4840 [============>.................] - ETA: 2s - loss: 13.8231 - mean\_absolute\_error: 2.57832234/4840 [============>.................] - ETA: 2s - loss: 13.8096 - mean\_absolute\_error: 2.57772291/4840 [=============>................] - ETA: 2s - loss: 13.8082 - mean\_absolute\_error: 2.57832350/4840 [=============>................] - ETA: 2s - loss: 13.8209 - mean\_absolute\_error: 2.58052407/4840 [=============>................] - ETA: 2s - loss: 13.8107 - mean\_absolute\_error: 2.58012465/4840 [==============>...............] - ETA: 2s - loss: 13.8024 - mean\_absolute\_error: 2.58012522/4840 [==============>...............] - ETA: 2s - loss: 13.7760 - mean\_absolute\_error: 2.57742581/4840 [==============>...............] - ETA: 2s - loss: 13.7682 - mean\_absolute\_error: 2.57672633/4840 [===============>..............] - ETA: 1s - loss: 13.7562 - mean\_absolute\_error: 2.57592685/4840 [===============>..............] - ETA: 1s - loss: 13.7519 - mean\_absolute\_error: 2.57582737/4840 [===============>..............] - ETA: 1s - loss: 13.7457 - mean\_absolute\_error: 2.57552793/4840 [================>.............] - ETA: 1s - loss: 13.7385 - mean\_absolute\_error: 2.57502849/4840 [================>.............] - ETA: 1s - loss: 13.7284 - mean\_absolute\_error: 2.57422903/4840 [================>.............] - ETA: 1s - loss: 13.7433 - mean\_absolute\_error: 2.57652959/4840 [=================>............] - ETA: 1s - loss: 13.7518 - mean\_absolute\_error: 2.57803014/4840 [=================>............] - ETA: 1s - loss: 13.7534 - mean\_absolute\_error: 2.57883072/4840 [==================>...........] - ETA: 1s - loss: 13.7626 - mean\_absolute\_error: 2.58063130/4840 [==================>...........] - ETA: 1s - loss: 13.7780 - mean\_absolute\_error: 2.58263187/4840 [==================>...........] - ETA: 1s - loss: 13.7765 - mean\_absolute\_error: 2.58303243/4840 [===================>..........] - ETA: 1s - loss: 13.7719 - mean\_absolute\_error: 2.58273298/4840 [===================>..........] - ETA: 1s - loss: 13.7632 - mean\_absolute\_error: 2.58243354/4840 [===================>..........] - ETA: 1s - loss: 13.7695 - mean\_absolute\_error: 2.58323412/4840 [====================>.........] - ETA: 1s - loss: 13.7747 - mean\_absolute\_error: 2.58443471/4840 [====================>.........] - ETA: 1s - loss: 13.7641 - mean\_absolute\_error: 2.58363528/4840 [====================>.........] - ETA: 1s - loss: 13.7505 - mean\_absolute\_error: 2.58263585/4840 [=====================>........] - ETA: 1s - loss: 13.7488 - mean\_absolute\_error: 2.58293643/4840 [=====================>........] - ETA: 1s - loss: 13.7483 - mean\_absolute\_error: 2.58373701/4840 [=====================>........] - ETA: 1s - loss: 13.7548 - mean\_absolute\_error: 2.58563759/4840 [======================>.......] - ETA: 0s - loss: 13.7524 - mean\_absolute\_error: 2.58623819/4840 [======================>.......] - ETA: 0s - loss: 13.7567 - mean\_absolute\_error: 2.58713878/4840 [=======================>......] - ETA: 0s - loss: 13.7425 - mean\_absolute\_error: 2.58593935/4840 [=======================>......] - ETA: 0s - loss: 13.7359 - mean\_absolute\_error: 2.58563992/4840 [=======================>......] - ETA: 0s - loss: 13.7354 - mean\_absolute\_error: 2.58574050/4840 [========================>.....] - ETA: 0s - loss: 13.7350 - mean\_absolute\_error: 2.58644108/4840 [========================>.....] - ETA: 0s - loss: 13.7387 - mean\_absolute\_error: 2.58714166/4840 [========================>.....] - ETA: 0s - loss: 13.7368 - mean\_absolute\_error: 2.58764225/4840 [=========================>....] - ETA: 0s - loss: 13.7252 - mean\_absolute\_error: 2.58644285/4840 [=========================>....] - ETA: 0s - loss: 13.7295 - mean\_absolute\_error: 2.58724344/4840 [=========================>....] - ETA: 0s - loss: 13.7269 - mean\_absolute\_error: 2.58724401/4840 [==========================>...] - ETA: 0s - loss: 13.7261 - mean\_absolute\_error: 2.58794460/4840 [==========================>...] - ETA: 0s - loss: 13.7272 - mean\_absolute\_error: 2.58864518/4840 [===========================>..] - ETA: 0s - loss: 13.7270 - mean\_absolute\_error: 2.58924577/4840 [===========================>..] - ETA: 0s - loss: 13.7254 - mean\_absolute\_error: 2.58934638/4840 [===========================>..] - ETA: 0s - loss: 13.7227 - mean\_absolute\_error: 2.58954699/4840 [============================>.] - ETA: 0s - loss: 13.7152 - mean\_absolute\_error: 2.58984759/4840 [============================>.] - ETA: 0s - loss: 13.6997 - mean\_absolute\_error: 2.58864818/4840 [============================>.] - ETA: 0s - loss: 13.7045 - mean\_absolute\_error: 2.58964840/4840 [==============================] - 5s 931us/step - loss: 13.7090 - mean\_absolute\_error: 2.5903 - val\_loss: 13.7404 - val\_mean\_absolute\_error: 2.6317  
Epoch 8/100  
 1/4840 [..............................] - ETA: 4s - loss: 11.7266 - mean\_absolute\_error: 2.3135 60/4840 [..............................] - ETA: 4s - loss: 13.6623 - mean\_absolute\_error: 2.6181 120/4840 [..............................] - ETA: 3s - loss: 13.4759 - mean\_absolute\_error: 2.6050 180/4840 [>.............................] - ETA: 3s - loss: 13.5294 - mean\_absolute\_error: 2.6127 239/4840 [>.............................] - ETA: 3s - loss: 13.4748 - mean\_absolute\_error: 2.6144 296/4840 [>.............................] - ETA: 3s - loss: 13.5290 - mean\_absolute\_error: 2.6177 354/4840 [=>............................] - ETA: 3s - loss: 13.5458 - mean\_absolute\_error: 2.6227 412/4840 [=>............................] - ETA: 3s - loss: 13.4780 - mean\_absolute\_error: 2.6155 469/4840 [=>............................] - ETA: 3s - loss: 13.3793 - mean\_absolute\_error: 2.6033 527/4840 [==>...........................] - ETA: 3s - loss: 13.3647 - mean\_absolute\_error: 2.6021 586/4840 [==>...........................] - ETA: 3s - loss: 13.3135 - mean\_absolute\_error: 2.5965 644/4840 [==>...........................] - ETA: 3s - loss: 13.2821 - mean\_absolute\_error: 2.5933 703/4840 [===>..........................] - ETA: 3s - loss: 13.3032 - mean\_absolute\_error: 2.5947 763/4840 [===>..........................] - ETA: 3s - loss: 13.3258 - mean\_absolute\_error: 2.5979 824/4840 [====>.........................] - ETA: 3s - loss: 13.2841 - mean\_absolute\_error: 2.5934 882/4840 [====>.........................] - ETA: 3s - loss: 13.2319 - mean\_absolute\_error: 2.5870 941/4840 [====>.........................] - ETA: 3s - loss: 13.2075 - mean\_absolute\_error: 2.58331001/4840 [=====>........................] - ETA: 3s - loss: 13.2917 - mean\_absolute\_error: 2.59451061/4840 [=====>........................] - ETA: 3s - loss: 13.2637 - mean\_absolute\_error: 2.59141121/4840 [=====>........................] - ETA: 3s - loss: 13.2603 - mean\_absolute\_error: 2.59221180/4840 [======>.......................] - ETA: 3s - loss: 13.3080 - mean\_absolute\_error: 2.59841237/4840 [======>.......................] - ETA: 3s - loss: 13.2673 - mean\_absolute\_error: 2.59341296/4840 [=======>......................] - ETA: 3s - loss: 13.2402 - mean\_absolute\_error: 2.58991354/4840 [=======>......................] - ETA: 2s - loss: 13.2084 - mean\_absolute\_error: 2.58711412/4840 [=======>......................] - ETA: 2s - loss: 13.2320 - mean\_absolute\_error: 2.59151470/4840 [========>.....................] - ETA: 2s - loss: 13.2342 - mean\_absolute\_error: 2.59201528/4840 [========>.....................] - ETA: 2s - loss: 13.2412 - mean\_absolute\_error: 2.59291587/4840 [========>.....................] - ETA: 2s - loss: 13.2558 - mean\_absolute\_error: 2.59481645/4840 [=========>....................] - ETA: 2s - loss: 13.2701 - mean\_absolute\_error: 2.59711704/4840 [=========>....................] - ETA: 2s - loss: 13.2537 - mean\_absolute\_error: 2.59501763/4840 [=========>....................] - ETA: 2s - loss: 13.2259 - mean\_absolute\_error: 2.59321822/4840 [==========>...................] - ETA: 2s - loss: 13.2239 - mean\_absolute\_error: 2.59351881/4840 [==========>...................] - ETA: 2s - loss: 13.2286 - mean\_absolute\_error: 2.59451939/4840 [===========>..................] - ETA: 2s - loss: 13.2052 - mean\_absolute\_error: 2.59181999/4840 [===========>..................] - ETA: 2s - loss: 13.1901 - mean\_absolute\_error: 2.59002059/4840 [===========>..................] - ETA: 2s - loss: 13.1631 - mean\_absolute\_error: 2.58602117/4840 [============>.................] - ETA: 2s - loss: 13.1398 - mean\_absolute\_error: 2.58332177/4840 [============>.................] - ETA: 2s - loss: 13.1366 - mean\_absolute\_error: 2.58422237/4840 [============>.................] - ETA: 2s - loss: 13.1183 - mean\_absolute\_error: 2.58232297/4840 [=============>................] - ETA: 2s - loss: 13.1398 - mean\_absolute\_error: 2.58552356/4840 [=============>................] - ETA: 2s - loss: 13.1342 - mean\_absolute\_error: 2.58572414/4840 [=============>................] - ETA: 2s - loss: 13.1182 - mean\_absolute\_error: 2.58422473/4840 [==============>...............] - ETA: 2s - loss: 13.1321 - mean\_absolute\_error: 2.58612532/4840 [==============>...............] - ETA: 1s - loss: 13.1459 - mean\_absolute\_error: 2.58792593/4840 [===============>..............] - ETA: 1s - loss: 13.1534 - mean\_absolute\_error: 2.58982652/4840 [===============>..............] - ETA: 1s - loss: 13.1604 - mean\_absolute\_error: 2.59112712/4840 [===============>..............] - ETA: 1s - loss: 13.1653 - mean\_absolute\_error: 2.59212771/4840 [================>.............] - ETA: 1s - loss: 13.1580 - mean\_absolute\_error: 2.59172829/4840 [================>.............] - ETA: 1s - loss: 13.1513 - mean\_absolute\_error: 2.59122888/4840 [================>.............] - ETA: 1s - loss: 13.1554 - mean\_absolute\_error: 2.59172947/4840 [=================>............] - ETA: 1s - loss: 13.1529 - mean\_absolute\_error: 2.59183007/4840 [=================>............] - ETA: 1s - loss: 13.1423 - mean\_absolute\_error: 2.59133066/4840 [==================>...........] - ETA: 1s - loss: 13.1310 - mean\_absolute\_error: 2.59043125/4840 [==================>...........] - ETA: 1s - loss: 13.1365 - mean\_absolute\_error: 2.59133186/4840 [==================>...........] - ETA: 1s - loss: 13.1383 - mean\_absolute\_error: 2.59203245/4840 [===================>..........] - ETA: 1s - loss: 13.1340 - mean\_absolute\_error: 2.59223304/4840 [===================>..........] - ETA: 1s - loss: 13.1162 - mean\_absolute\_error: 2.59043363/4840 [===================>..........] - ETA: 1s - loss: 13.1124 - mean\_absolute\_error: 2.59043423/4840 [====================>.........] - ETA: 1s - loss: 13.1041 - mean\_absolute\_error: 2.59043483/4840 [====================>.........] - ETA: 1s - loss: 13.1097 - mean\_absolute\_error: 2.59163542/4840 [====================>.........] - ETA: 1s - loss: 13.1010 - mean\_absolute\_error: 2.59073598/4840 [=====================>........] - ETA: 1s - loss: 13.0935 - mean\_absolute\_error: 2.59023656/4840 [=====================>........] - ETA: 1s - loss: 13.1009 - mean\_absolute\_error: 2.59153716/4840 [======================>.......] - ETA: 0s - loss: 13.0825 - mean\_absolute\_error: 2.58993775/4840 [======================>.......] - ETA: 0s - loss: 13.0707 - mean\_absolute\_error: 2.58893834/4840 [======================>.......] - ETA: 0s - loss: 13.0553 - mean\_absolute\_error: 2.58743894/4840 [=======================>......] - ETA: 0s - loss: 13.0527 - mean\_absolute\_error: 2.58803950/4840 [=======================>......] - ETA: 0s - loss: 13.0521 - mean\_absolute\_error: 2.58844007/4840 [=======================>......] - ETA: 0s - loss: 13.0385 - mean\_absolute\_error: 2.58734062/4840 [========================>.....] - ETA: 0s - loss: 13.0309 - mean\_absolute\_error: 2.58694117/4840 [========================>.....] - ETA: 0s - loss: 13.0225 - mean\_absolute\_error: 2.58624167/4840 [========================>.....] - ETA: 0s - loss: 13.0133 - mean\_absolute\_error: 2.58564219/4840 [=========================>....] - ETA: 0s - loss: 13.0179 - mean\_absolute\_error: 2.58634272/4840 [=========================>....] - ETA: 0s - loss: 13.0180 - mean\_absolute\_error: 2.58664326/4840 [=========================>....] - ETA: 0s - loss: 13.0163 - mean\_absolute\_error: 2.58664381/4840 [==========================>...] - ETA: 0s - loss: 13.0067 - mean\_absolute\_error: 2.58584436/4840 [==========================>...] - ETA: 0s - loss: 13.0226 - mean\_absolute\_error: 2.58784493/4840 [==========================>...] - ETA: 0s - loss: 13.0138 - mean\_absolute\_error: 2.58674550/4840 [===========================>..] - ETA: 0s - loss: 13.0180 - mean\_absolute\_error: 2.58744606/4840 [===========================>..] - ETA: 0s - loss: 13.0104 - mean\_absolute\_error: 2.58684663/4840 [===========================>..] - ETA: 0s - loss: 13.0173 - mean\_absolute\_error: 2.58804720/4840 [============================>.] - ETA: 0s - loss: 13.0062 - mean\_absolute\_error: 2.58714776/4840 [============================>.] - ETA: 0s - loss: 13.0036 - mean\_absolute\_error: 2.58754833/4840 [============================>.] - ETA: 0s - loss: 12.9999 - mean\_absolute\_error: 2.58794840/4840 [==============================] - 4s 909us/step - loss: 12.9999 - mean\_absolute\_error: 2.5879 - val\_loss: 13.2069 - val\_mean\_absolute\_error: 2.6356  
Epoch 9/100  
 1/4840 [..............................] - ETA: 4s - loss: 8.8753 - mean\_absolute\_error: 2.2127 57/4840 [..............................] - ETA: 4s - loss: 12.0367 - mean\_absolute\_error: 2.5267 115/4840 [..............................] - ETA: 4s - loss: 12.7051 - mean\_absolute\_error: 2.5893 173/4840 [>.............................] - ETA: 4s - loss: 12.7984 - mean\_absolute\_error: 2.6089 231/4840 [>.............................] - ETA: 4s - loss: 12.6902 - mean\_absolute\_error: 2.5977 290/4840 [>.............................] - ETA: 3s - loss: 12.5014 - mean\_absolute\_error: 2.5702 349/4840 [=>............................] - ETA: 3s - loss: 12.6259 - mean\_absolute\_error: 2.5833 408/4840 [=>............................] - ETA: 3s - loss: 12.6353 - mean\_absolute\_error: 2.5829 466/4840 [=>............................] - ETA: 3s - loss: 12.6065 - mean\_absolute\_error: 2.5826 522/4840 [==>...........................] - ETA: 3s - loss: 12.5556 - mean\_absolute\_error: 2.5799 580/4840 [==>...........................] - ETA: 3s - loss: 12.6031 - mean\_absolute\_error: 2.5865 636/4840 [==>...........................] - ETA: 3s - loss: 12.6112 - mean\_absolute\_error: 2.5877 694/4840 [===>..........................] - ETA: 3s - loss: 12.6150 - mean\_absolute\_error: 2.5862 751/4840 [===>..........................] - ETA: 3s - loss: 12.6380 - mean\_absolute\_error: 2.5894 807/4840 [====>.........................] - ETA: 3s - loss: 12.6623 - mean\_absolute\_error: 2.5919 863/4840 [====>.........................] - ETA: 3s - loss: 12.6559 - mean\_absolute\_error: 2.5907 920/4840 [====>.........................] - ETA: 3s - loss: 12.6547 - mean\_absolute\_error: 2.5906 975/4840 [=====>........................] - ETA: 3s - loss: 12.6320 - mean\_absolute\_error: 2.58661031/4840 [=====>........................] - ETA: 3s - loss: 12.6178 - mean\_absolute\_error: 2.58661089/4840 [=====>........................] - ETA: 3s - loss: 12.6343 - mean\_absolute\_error: 2.58871143/4840 [======>.......................] - ETA: 3s - loss: 12.6398 - mean\_absolute\_error: 2.58871201/4840 [======>.......................] - ETA: 3s - loss: 12.6441 - mean\_absolute\_error: 2.58931258/4840 [======>.......................] - ETA: 3s - loss: 12.6665 - mean\_absolute\_error: 2.59251316/4840 [=======>......................] - ETA: 3s - loss: 12.6364 - mean\_absolute\_error: 2.58881374/4840 [=======>......................] - ETA: 3s - loss: 12.6581 - mean\_absolute\_error: 2.59231432/4840 [=======>......................] - ETA: 2s - loss: 12.6477 - mean\_absolute\_error: 2.59091490/4840 [========>.....................] - ETA: 2s - loss: 12.6423 - mean\_absolute\_error: 2.59061548/4840 [========>.....................] - ETA: 2s - loss: 12.6572 - mean\_absolute\_error: 2.59231607/4840 [========>.....................] - ETA: 2s - loss: 12.6700 - mean\_absolute\_error: 2.59451666/4840 [=========>....................] - ETA: 2s - loss: 12.6553 - mean\_absolute\_error: 2.59231726/4840 [=========>....................] - ETA: 2s - loss: 12.6553 - mean\_absolute\_error: 2.59291784/4840 [==========>...................] - ETA: 2s - loss: 12.6192 - mean\_absolute\_error: 2.58911845/4840 [==========>...................] - ETA: 2s - loss: 12.6197 - mean\_absolute\_error: 2.59021904/4840 [==========>...................] - ETA: 2s - loss: 12.6206 - mean\_absolute\_error: 2.59051963/4840 [===========>..................] - ETA: 2s - loss: 12.5946 - mean\_absolute\_error: 2.58752022/4840 [===========>..................] - ETA: 2s - loss: 12.6062 - mean\_absolute\_error: 2.58942079/4840 [===========>..................] - ETA: 2s - loss: 12.6163 - mean\_absolute\_error: 2.59062138/4840 [============>.................] - ETA: 2s - loss: 12.5829 - mean\_absolute\_error: 2.58692198/4840 [============>.................] - ETA: 2s - loss: 12.5623 - mean\_absolute\_error: 2.58372256/4840 [============>.................] - ETA: 2s - loss: 12.5524 - mean\_absolute\_error: 2.58282313/4840 [=============>................] - ETA: 2s - loss: 12.5569 - mean\_absolute\_error: 2.58342372/4840 [=============>................] - ETA: 2s - loss: 12.5612 - mean\_absolute\_error: 2.58442431/4840 [==============>...............] - ETA: 2s - loss: 12.5375 - mean\_absolute\_error: 2.58202491/4840 [==============>...............] - ETA: 2s - loss: 12.5374 - mean\_absolute\_error: 2.58202550/4840 [==============>...............] - ETA: 1s - loss: 12.5360 - mean\_absolute\_error: 2.58252608/4840 [===============>..............] - ETA: 1s - loss: 12.5332 - mean\_absolute\_error: 2.58272666/4840 [===============>..............] - ETA: 1s - loss: 12.5231 - mean\_absolute\_error: 2.58222726/4840 [===============>..............] - ETA: 1s - loss: 12.5292 - mean\_absolute\_error: 2.58292786/4840 [================>.............] - ETA: 1s - loss: 12.5175 - mean\_absolute\_error: 2.58172846/4840 [================>.............] - ETA: 1s - loss: 12.5117 - mean\_absolute\_error: 2.58072905/4840 [=================>............] - ETA: 1s - loss: 12.5013 - mean\_absolute\_error: 2.58012965/4840 [=================>............] - ETA: 1s - loss: 12.4927 - mean\_absolute\_error: 2.57913024/4840 [=================>............] - ETA: 1s - loss: 12.4927 - mean\_absolute\_error: 2.57953081/4840 [==================>...........] - ETA: 1s - loss: 12.4900 - mean\_absolute\_error: 2.57883139/4840 [==================>...........] - ETA: 1s - loss: 12.4810 - mean\_absolute\_error: 2.57793198/4840 [==================>...........] - ETA: 1s - loss: 12.4795 - mean\_absolute\_error: 2.57803255/4840 [===================>..........] - ETA: 1s - loss: 12.4679 - mean\_absolute\_error: 2.57683312/4840 [===================>..........] - ETA: 1s - loss: 12.4697 - mean\_absolute\_error: 2.57763371/4840 [===================>..........] - ETA: 1s - loss: 12.4707 - mean\_absolute\_error: 2.57783429/4840 [====================>.........] - ETA: 1s - loss: 12.4719 - mean\_absolute\_error: 2.57793487/4840 [====================>.........] - ETA: 1s - loss: 12.4675 - mean\_absolute\_error: 2.57753546/4840 [====================>.........] - ETA: 1s - loss: 12.4721 - mean\_absolute\_error: 2.57803606/4840 [=====================>........] - ETA: 1s - loss: 12.4745 - mean\_absolute\_error: 2.57903666/4840 [=====================>........] - ETA: 1s - loss: 12.4723 - mean\_absolute\_error: 2.57913727/4840 [======================>.......] - ETA: 0s - loss: 12.4652 - mean\_absolute\_error: 2.57873788/4840 [======================>.......] - ETA: 0s - loss: 12.4569 - mean\_absolute\_error: 2.57823846/4840 [======================>.......] - ETA: 0s - loss: 12.4608 - mean\_absolute\_error: 2.57893904/4840 [=======================>......] - ETA: 0s - loss: 12.4552 - mean\_absolute\_error: 2.57863965/4840 [=======================>......] - ETA: 0s - loss: 12.4543 - mean\_absolute\_error: 2.57864025/4840 [=======================>......] - ETA: 0s - loss: 12.4492 - mean\_absolute\_error: 2.57824084/4840 [========================>.....] - ETA: 0s - loss: 12.4513 - mean\_absolute\_error: 2.57864143/4840 [========================>.....] - ETA: 0s - loss: 12.4467 - mean\_absolute\_error: 2.57854202/4840 [=========================>....] - ETA: 0s - loss: 12.4482 - mean\_absolute\_error: 2.57824263/4840 [=========================>....] - ETA: 0s - loss: 12.4494 - mean\_absolute\_error: 2.57854322/4840 [=========================>....] - ETA: 0s - loss: 12.4457 - mean\_absolute\_error: 2.57864380/4840 [==========================>...] - ETA: 0s - loss: 12.4548 - mean\_absolute\_error: 2.57954440/4840 [==========================>...] - ETA: 0s - loss: 12.4625 - mean\_absolute\_error: 2.58054499/4840 [==========================>...] - ETA: 0s - loss: 12.4604 - mean\_absolute\_error: 2.58084559/4840 [===========================>..] - ETA: 0s - loss: 12.4659 - mean\_absolute\_error: 2.58144617/4840 [===========================>..] - ETA: 0s - loss: 12.4617 - mean\_absolute\_error: 2.58124677/4840 [===========================>..] - ETA: 0s - loss: 12.4453 - mean\_absolute\_error: 2.57934737/4840 [============================>.] - ETA: 0s - loss: 12.4345 - mean\_absolute\_error: 2.57814796/4840 [============================>.] - ETA: 0s - loss: 12.4401 - mean\_absolute\_error: 2.57874834/4840 [============================>.] - ETA: 0s - loss: 12.4373 - mean\_absolute\_error: 2.57854840/4840 [==============================] - 4s 909us/step - loss: 12.4401 - mean\_absolute\_error: 2.5789 - val\_loss: 12.7919 - val\_mean\_absolute\_error: 2.6339  
Epoch 10/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.0432 - mean\_absolute\_error: 1.9366 59/4840 [..............................] - ETA: 4s - loss: 12.2015 - mean\_absolute\_error: 2.5672 117/4840 [..............................] - ETA: 4s - loss: 12.1701 - mean\_absolute\_error: 2.5576 175/4840 [>.............................] - ETA: 4s - loss: 12.4493 - mean\_absolute\_error: 2.5930 234/4840 [>.............................] - ETA: 3s - loss: 12.2881 - mean\_absolute\_error: 2.5790 293/4840 [>.............................] - ETA: 3s - loss: 12.2545 - mean\_absolute\_error: 2.5761 350/4840 [=>............................] - ETA: 3s - loss: 12.1914 - mean\_absolute\_error: 2.5648 407/4840 [=>............................] - ETA: 3s - loss: 12.1083 - mean\_absolute\_error: 2.5543 465/4840 [=>............................] - ETA: 3s - loss: 12.0810 - mean\_absolute\_error: 2.5565 522/4840 [==>...........................] - ETA: 3s - loss: 12.1262 - mean\_absolute\_error: 2.5622 581/4840 [==>...........................] - ETA: 3s - loss: 12.1289 - mean\_absolute\_error: 2.5611 640/4840 [==>...........................] - ETA: 3s - loss: 12.1066 - mean\_absolute\_error: 2.5597 697/4840 [===>..........................] - ETA: 3s - loss: 12.0797 - mean\_absolute\_error: 2.5577 754/4840 [===>..........................] - ETA: 3s - loss: 12.1244 - mean\_absolute\_error: 2.5652 812/4840 [====>.........................] - ETA: 3s - loss: 12.1352 - mean\_absolute\_error: 2.5679 871/4840 [====>.........................] - ETA: 3s - loss: 12.1223 - mean\_absolute\_error: 2.5673 930/4840 [====>.........................] - ETA: 3s - loss: 12.1463 - mean\_absolute\_error: 2.5703 989/4840 [=====>........................] - ETA: 3s - loss: 12.1303 - mean\_absolute\_error: 2.56901047/4840 [=====>........................] - ETA: 3s - loss: 12.1322 - mean\_absolute\_error: 2.56861104/4840 [=====>........................] - ETA: 3s - loss: 12.1194 - mean\_absolute\_error: 2.56731163/4840 [======>.......................] - ETA: 3s - loss: 12.0946 - mean\_absolute\_error: 2.56451222/4840 [======>.......................] - ETA: 3s - loss: 12.0905 - mean\_absolute\_error: 2.56551281/4840 [======>.......................] - ETA: 3s - loss: 12.1474 - mean\_absolute\_error: 2.57311339/4840 [=======>......................] - ETA: 3s - loss: 12.1431 - mean\_absolute\_error: 2.57241397/4840 [=======>......................] - ETA: 2s - loss: 12.1153 - mean\_absolute\_error: 2.56811456/4840 [========>.....................] - ETA: 2s - loss: 12.1127 - mean\_absolute\_error: 2.56811517/4840 [========>.....................] - ETA: 2s - loss: 12.0845 - mean\_absolute\_error: 2.56451576/4840 [========>.....................] - ETA: 2s - loss: 12.0782 - mean\_absolute\_error: 2.56401635/4840 [=========>....................] - ETA: 2s - loss: 12.0688 - mean\_absolute\_error: 2.56221695/4840 [=========>....................] - ETA: 2s - loss: 12.0715 - mean\_absolute\_error: 2.56371753/4840 [=========>....................] - ETA: 2s - loss: 12.0280 - mean\_absolute\_error: 2.55811810/4840 [==========>...................] - ETA: 2s - loss: 12.0323 - mean\_absolute\_error: 2.55781867/4840 [==========>...................] - ETA: 2s - loss: 12.0262 - mean\_absolute\_error: 2.55731926/4840 [==========>...................] - ETA: 2s - loss: 12.0266 - mean\_absolute\_error: 2.55721986/4840 [===========>..................] - ETA: 2s - loss: 12.0136 - mean\_absolute\_error: 2.55502047/4840 [===========>..................] - ETA: 2s - loss: 11.9941 - mean\_absolute\_error: 2.55272107/4840 [============>.................] - ETA: 2s - loss: 11.9906 - mean\_absolute\_error: 2.55322167/4840 [============>.................] - ETA: 2s - loss: 11.9956 - mean\_absolute\_error: 2.55422226/4840 [============>.................] - ETA: 2s - loss: 11.9906 - mean\_absolute\_error: 2.55462286/4840 [=============>................] - ETA: 2s - loss: 11.9937 - mean\_absolute\_error: 2.55532347/4840 [=============>................] - ETA: 2s - loss: 11.9779 - mean\_absolute\_error: 2.55362407/4840 [=============>................] - ETA: 2s - loss: 11.9612 - mean\_absolute\_error: 2.55132465/4840 [==============>...............] - ETA: 2s - loss: 11.9696 - mean\_absolute\_error: 2.55262524/4840 [==============>...............] - ETA: 1s - loss: 11.9624 - mean\_absolute\_error: 2.55182585/4840 [===============>..............] - ETA: 1s - loss: 11.9812 - mean\_absolute\_error: 2.55472643/4840 [===============>..............] - ETA: 1s - loss: 11.9774 - mean\_absolute\_error: 2.55422701/4840 [===============>..............] - ETA: 1s - loss: 11.9759 - mean\_absolute\_error: 2.55402759/4840 [================>.............] - ETA: 1s - loss: 11.9744 - mean\_absolute\_error: 2.55422816/4840 [================>.............] - ETA: 1s - loss: 11.9724 - mean\_absolute\_error: 2.55442874/4840 [================>.............] - ETA: 1s - loss: 11.9721 - mean\_absolute\_error: 2.55512933/4840 [=================>............] - ETA: 1s - loss: 11.9761 - mean\_absolute\_error: 2.55572989/4840 [=================>............] - ETA: 1s - loss: 11.9790 - mean\_absolute\_error: 2.55643048/4840 [=================>............] - ETA: 1s - loss: 11.9913 - mean\_absolute\_error: 2.55793106/4840 [==================>...........] - ETA: 1s - loss: 11.9896 - mean\_absolute\_error: 2.55753165/4840 [==================>...........] - ETA: 1s - loss: 12.0022 - mean\_absolute\_error: 2.55923225/4840 [==================>...........] - ETA: 1s - loss: 11.9993 - mean\_absolute\_error: 2.55923284/4840 [===================>..........] - ETA: 1s - loss: 11.9900 - mean\_absolute\_error: 2.55823340/4840 [===================>..........] - ETA: 1s - loss: 11.9895 - mean\_absolute\_error: 2.55853394/4840 [====================>.........] - ETA: 1s - loss: 12.0085 - mean\_absolute\_error: 2.56123449/4840 [====================>.........] - ETA: 1s - loss: 12.0042 - mean\_absolute\_error: 2.56103501/4840 [====================>.........] - ETA: 1s - loss: 12.0110 - mean\_absolute\_error: 2.56213552/4840 [=====================>........] - ETA: 1s - loss: 12.0203 - mean\_absolute\_error: 2.56323605/4840 [=====================>........] - ETA: 1s - loss: 12.0255 - mean\_absolute\_error: 2.56373656/4840 [=====================>........] - ETA: 1s - loss: 12.0242 - mean\_absolute\_error: 2.56393708/4840 [=====================>........] - ETA: 0s - loss: 12.0232 - mean\_absolute\_error: 2.56393757/4840 [======================>.......] - ETA: 0s - loss: 12.0262 - mean\_absolute\_error: 2.56383810/4840 [======================>.......] - ETA: 0s - loss: 12.0282 - mean\_absolute\_error: 2.56433863/4840 [======================>.......] - ETA: 0s - loss: 12.0152 - mean\_absolute\_error: 2.56293914/4840 [=======================>......] - ETA: 0s - loss: 12.0185 - mean\_absolute\_error: 2.56343968/4840 [=======================>......] - ETA: 0s - loss: 12.0062 - mean\_absolute\_error: 2.56214022/4840 [=======================>......] - ETA: 0s - loss: 12.0081 - mean\_absolute\_error: 2.56284074/4840 [========================>.....] - ETA: 0s - loss: 12.0142 - mean\_absolute\_error: 2.56374130/4840 [========================>.....] - ETA: 0s - loss: 12.0164 - mean\_absolute\_error: 2.56454186/4840 [========================>.....] - ETA: 0s - loss: 12.0208 - mean\_absolute\_error: 2.56544242/4840 [=========================>....] - ETA: 0s - loss: 12.0206 - mean\_absolute\_error: 2.56544299/4840 [=========================>....] - ETA: 0s - loss: 12.0273 - mean\_absolute\_error: 2.56644350/4840 [=========================>....] - ETA: 0s - loss: 12.0346 - mean\_absolute\_error: 2.56764403/4840 [==========================>...] - ETA: 0s - loss: 12.0344 - mean\_absolute\_error: 2.56784458/4840 [==========================>...] - ETA: 0s - loss: 12.0281 - mean\_absolute\_error: 2.56734512/4840 [==========================>...] - ETA: 0s - loss: 12.0288 - mean\_absolute\_error: 2.56784560/4840 [===========================>..] - ETA: 0s - loss: 12.0264 - mean\_absolute\_error: 2.56754613/4840 [===========================>..] - ETA: 0s - loss: 12.0221 - mean\_absolute\_error: 2.56684670/4840 [===========================>..] - ETA: 0s - loss: 12.0177 - mean\_absolute\_error: 2.56654726/4840 [============================>.] - ETA: 0s - loss: 12.0192 - mean\_absolute\_error: 2.56694781/4840 [============================>.] - ETA: 0s - loss: 12.0172 - mean\_absolute\_error: 2.56684830/4840 [============================>.] - ETA: 0s - loss: 12.0048 - mean\_absolute\_error: 2.56554840/4840 [==============================] - 5s 938us/step - loss: 12.0035 - mean\_absolute\_error: 2.5653 - val\_loss: 12.4705 - val\_mean\_absolute\_error: 2.6298  
Epoch 11/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.7568 - mean\_absolute\_error: 2.2256 53/4840 [..............................] - ETA: 4s - loss: 11.6842 - mean\_absolute\_error: 2.5265 104/4840 [..............................] - ETA: 4s - loss: 12.0847 - mean\_absolute\_error: 2.5977 156/4840 [..............................] - ETA: 4s - loss: 12.4414 - mean\_absolute\_error: 2.6446 211/4840 [>.............................] - ETA: 4s - loss: 12.0408 - mean\_absolute\_error: 2.5923 264/4840 [>.............................] - ETA: 4s - loss: 11.9609 - mean\_absolute\_error: 2.5842 314/4840 [>.............................] - ETA: 4s - loss: 11.8660 - mean\_absolute\_error: 2.5701 369/4840 [=>............................] - ETA: 4s - loss: 11.8366 - mean\_absolute\_error: 2.5648 420/4840 [=>............................] - ETA: 4s - loss: 11.8343 - mean\_absolute\_error: 2.5655 463/4840 [=>............................] - ETA: 4s - loss: 11.7886 - mean\_absolute\_error: 2.5583 501/4840 [==>...........................] - ETA: 4s - loss: 11.7870 - mean\_absolute\_error: 2.5574 547/4840 [==>...........................] - ETA: 4s - loss: 11.7472 - mean\_absolute\_error: 2.5538 599/4840 [==>...........................] - ETA: 4s - loss: 11.6970 - mean\_absolute\_error: 2.5451 649/4840 [===>..........................] - ETA: 4s - loss: 11.6673 - mean\_absolute\_error: 2.5439 701/4840 [===>..........................] - ETA: 4s - loss: 11.6367 - mean\_absolute\_error: 2.5396 754/4840 [===>..........................] - ETA: 4s - loss: 11.6177 - mean\_absolute\_error: 2.5381 806/4840 [===>..........................] - ETA: 4s - loss: 11.6208 - mean\_absolute\_error: 2.5412 856/4840 [====>.........................] - ETA: 3s - loss: 11.6451 - mean\_absolute\_error: 2.5446 910/4840 [====>.........................] - ETA: 3s - loss: 11.6157 - mean\_absolute\_error: 2.5414 965/4840 [====>.........................] - ETA: 3s - loss: 11.5696 - mean\_absolute\_error: 2.53491018/4840 [=====>........................] - ETA: 3s - loss: 11.5964 - mean\_absolute\_error: 2.53791068/4840 [=====>........................] - ETA: 3s - loss: 11.6064 - mean\_absolute\_error: 2.53901121/4840 [=====>........................] - ETA: 3s - loss: 11.6013 - mean\_absolute\_error: 2.53801173/4840 [======>.......................] - ETA: 3s - loss: 11.5943 - mean\_absolute\_error: 2.53701226/4840 [======>.......................] - ETA: 3s - loss: 11.5840 - mean\_absolute\_error: 2.53561278/4840 [======>.......................] - ETA: 3s - loss: 11.6098 - mean\_absolute\_error: 2.54001333/4840 [=======>......................] - ETA: 3s - loss: 11.6355 - mean\_absolute\_error: 2.54341383/4840 [=======>......................] - ETA: 3s - loss: 11.6330 - mean\_absolute\_error: 2.54301438/4840 [=======>......................] - ETA: 3s - loss: 11.6177 - mean\_absolute\_error: 2.54051492/4840 [========>.....................] - ETA: 3s - loss: 11.6166 - mean\_absolute\_error: 2.54041545/4840 [========>.....................] - ETA: 3s - loss: 11.5966 - mean\_absolute\_error: 2.53821597/4840 [========>.....................] - ETA: 3s - loss: 11.5941 - mean\_absolute\_error: 2.53811652/4840 [=========>....................] - ETA: 3s - loss: 11.5997 - mean\_absolute\_error: 2.53881708/4840 [=========>....................] - ETA: 3s - loss: 11.6243 - mean\_absolute\_error: 2.54101756/4840 [=========>....................] - ETA: 3s - loss: 11.6343 - mean\_absolute\_error: 2.54271805/4840 [==========>...................] - ETA: 2s - loss: 11.6428 - mean\_absolute\_error: 2.54351858/4840 [==========>...................] - ETA: 2s - loss: 11.6420 - mean\_absolute\_error: 2.54381913/4840 [==========>...................] - ETA: 2s - loss: 11.6438 - mean\_absolute\_error: 2.54401962/4840 [===========>..................] - ETA: 2s - loss: 11.6679 - mean\_absolute\_error: 2.54762015/4840 [===========>..................] - ETA: 2s - loss: 11.6752 - mean\_absolute\_error: 2.54912064/4840 [===========>..................] - ETA: 2s - loss: 11.6638 - mean\_absolute\_error: 2.54752115/4840 [============>.................] - ETA: 2s - loss: 11.6852 - mean\_absolute\_error: 2.54982167/4840 [============>.................] - ETA: 2s - loss: 11.6991 - mean\_absolute\_error: 2.55192219/4840 [============>.................] - ETA: 2s - loss: 11.7050 - mean\_absolute\_error: 2.55282272/4840 [=============>................] - ETA: 2s - loss: 11.7026 - mean\_absolute\_error: 2.55262324/4840 [=============>................] - ETA: 2s - loss: 11.6899 - mean\_absolute\_error: 2.55082374/4840 [=============>................] - ETA: 2s - loss: 11.7044 - mean\_absolute\_error: 2.55262426/4840 [==============>...............] - ETA: 2s - loss: 11.6991 - mean\_absolute\_error: 2.55172472/4840 [==============>...............] - ETA: 2s - loss: 11.6948 - mean\_absolute\_error: 2.55132516/4840 [==============>...............] - ETA: 2s - loss: 11.7052 - mean\_absolute\_error: 2.55222558/4840 [==============>...............] - ETA: 2s - loss: 11.7191 - mean\_absolute\_error: 2.55362602/4840 [===============>..............] - ETA: 2s - loss: 11.7302 - mean\_absolute\_error: 2.55492644/4840 [===============>..............] - ETA: 2s - loss: 11.7228 - mean\_absolute\_error: 2.55432684/4840 [===============>..............] - ETA: 2s - loss: 11.7255 - mean\_absolute\_error: 2.55512721/4840 [===============>..............] - ETA: 2s - loss: 11.7288 - mean\_absolute\_error: 2.55582768/4840 [================>.............] - ETA: 2s - loss: 11.7296 - mean\_absolute\_error: 2.55582813/4840 [================>.............] - ETA: 2s - loss: 11.7171 - mean\_absolute\_error: 2.55402851/4840 [================>.............] - ETA: 2s - loss: 11.7295 - mean\_absolute\_error: 2.55552893/4840 [================>.............] - ETA: 1s - loss: 11.7334 - mean\_absolute\_error: 2.55612938/4840 [=================>............] - ETA: 1s - loss: 11.7269 - mean\_absolute\_error: 2.55542980/4840 [=================>............] - ETA: 1s - loss: 11.7242 - mean\_absolute\_error: 2.55553021/4840 [=================>............] - ETA: 1s - loss: 11.7146 - mean\_absolute\_error: 2.55443059/4840 [=================>............] - ETA: 1s - loss: 11.7259 - mean\_absolute\_error: 2.55643104/4840 [==================>...........] - ETA: 1s - loss: 11.7315 - mean\_absolute\_error: 2.55723148/4840 [==================>...........] - ETA: 1s - loss: 11.7220 - mean\_absolute\_error: 2.55653193/4840 [==================>...........] - ETA: 1s - loss: 11.7192 - mean\_absolute\_error: 2.55623241/4840 [===================>..........] - ETA: 1s - loss: 11.7185 - mean\_absolute\_error: 2.55633287/4840 [===================>..........] - ETA: 1s - loss: 11.7209 - mean\_absolute\_error: 2.55693333/4840 [===================>..........] - ETA: 1s - loss: 11.7192 - mean\_absolute\_error: 2.55683377/4840 [===================>..........] - ETA: 1s - loss: 11.7262 - mean\_absolute\_error: 2.55773425/4840 [====================>.........] - ETA: 1s - loss: 11.7210 - mean\_absolute\_error: 2.55733471/4840 [====================>.........] - ETA: 1s - loss: 11.7128 - mean\_absolute\_error: 2.55643520/4840 [====================>.........] - ETA: 1s - loss: 11.7156 - mean\_absolute\_error: 2.55723561/4840 [=====================>........] - ETA: 1s - loss: 11.7093 - mean\_absolute\_error: 2.55673600/4840 [=====================>........] - ETA: 1s - loss: 11.7109 - mean\_absolute\_error: 2.55713643/4840 [=====================>........] - ETA: 1s - loss: 11.7042 - mean\_absolute\_error: 2.55633692/4840 [=====================>........] - ETA: 1s - loss: 11.7081 - mean\_absolute\_error: 2.55683744/4840 [======================>.......] - ETA: 1s - loss: 11.7102 - mean\_absolute\_error: 2.55723797/4840 [======================>.......] - ETA: 1s - loss: 11.7043 - mean\_absolute\_error: 2.55673849/4840 [======================>.......] - ETA: 1s - loss: 11.7029 - mean\_absolute\_error: 2.55653900/4840 [=======================>......] - ETA: 0s - loss: 11.6959 - mean\_absolute\_error: 2.55533950/4840 [=======================>......] - ETA: 0s - loss: 11.6979 - mean\_absolute\_error: 2.55564003/4840 [=======================>......] - ETA: 0s - loss: 11.7060 - mean\_absolute\_error: 2.55664056/4840 [========================>.....] - ETA: 0s - loss: 11.7038 - mean\_absolute\_error: 2.55634109/4840 [========================>.....] - ETA: 0s - loss: 11.6929 - mean\_absolute\_error: 2.55494163/4840 [========================>.....] - ETA: 0s - loss: 11.6857 - mean\_absolute\_error: 2.55404217/4840 [=========================>....] - ETA: 0s - loss: 11.6859 - mean\_absolute\_error: 2.55424272/4840 [=========================>....] - ETA: 0s - loss: 11.6854 - mean\_absolute\_error: 2.55404325/4840 [=========================>....] - ETA: 0s - loss: 11.6905 - mean\_absolute\_error: 2.55454378/4840 [==========================>...] - ETA: 0s - loss: 11.6847 - mean\_absolute\_error: 2.55384430/4840 [==========================>...] - ETA: 0s - loss: 11.6783 - mean\_absolute\_error: 2.55324482/4840 [==========================>...] - ETA: 0s - loss: 11.6791 - mean\_absolute\_error: 2.55324533/4840 [===========================>..] - ETA: 0s - loss: 11.6781 - mean\_absolute\_error: 2.55334583/4840 [===========================>..] - ETA: 0s - loss: 11.6745 - mean\_absolute\_error: 2.55324635/4840 [===========================>..] - ETA: 0s - loss: 11.6770 - mean\_absolute\_error: 2.55374691/4840 [============================>.] - ETA: 0s - loss: 11.6700 - mean\_absolute\_error: 2.55314743/4840 [============================>.] - ETA: 0s - loss: 11.6670 - mean\_absolute\_error: 2.55294798/4840 [============================>.] - ETA: 0s - loss: 11.6607 - mean\_absolute\_error: 2.55224840/4840 [==============================] - 5s 1ms/step - loss: 11.6644 - mean\_absolute\_error: 2.5528 - val\_loss: 12.2236 - val\_mean\_absolute\_error: 2.6238  
Epoch 12/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.7402 - mean\_absolute\_error: 2.4947 56/4840 [..............................] - ETA: 4s - loss: 11.1009 - mean\_absolute\_error: 2.5228 107/4840 [..............................] - ETA: 4s - loss: 10.9084 - mean\_absolute\_error: 2.4871 160/4840 [..............................] - ETA: 4s - loss: 11.2255 - mean\_absolute\_error: 2.5182 214/4840 [>.............................] - ETA: 4s - loss: 11.1886 - mean\_absolute\_error: 2.5085 268/4840 [>.............................] - ETA: 4s - loss: 11.2006 - mean\_absolute\_error: 2.5093 321/4840 [>.............................] - ETA: 4s - loss: 11.2830 - mean\_absolute\_error: 2.5231 371/4840 [=>............................] - ETA: 4s - loss: 11.2081 - mean\_absolute\_error: 2.5138 420/4840 [=>............................] - ETA: 4s - loss: 11.2283 - mean\_absolute\_error: 2.5137 476/4840 [=>............................] - ETA: 4s - loss: 11.2682 - mean\_absolute\_error: 2.5205 529/4840 [==>...........................] - ETA: 4s - loss: 11.3452 - mean\_absolute\_error: 2.5315 584/4840 [==>...........................] - ETA: 4s - loss: 11.2993 - mean\_absolute\_error: 2.5239 638/4840 [==>...........................] - ETA: 3s - loss: 11.2838 - mean\_absolute\_error: 2.5203 694/4840 [===>..........................] - ETA: 3s - loss: 11.2797 - mean\_absolute\_error: 2.5185 748/4840 [===>..........................] - ETA: 3s - loss: 11.2478 - mean\_absolute\_error: 2.5141 803/4840 [===>..........................] - ETA: 3s - loss: 11.2349 - mean\_absolute\_error: 2.5126 855/4840 [====>.........................] - ETA: 3s - loss: 11.2795 - mean\_absolute\_error: 2.5195 907/4840 [====>.........................] - ETA: 3s - loss: 11.2670 - mean\_absolute\_error: 2.5185 961/4840 [====>.........................] - ETA: 3s - loss: 11.2712 - mean\_absolute\_error: 2.51941013/4840 [=====>........................] - ETA: 3s - loss: 11.2675 - mean\_absolute\_error: 2.51831066/4840 [=====>........................] - ETA: 3s - loss: 11.2779 - mean\_absolute\_error: 2.51991118/4840 [=====>........................] - ETA: 3s - loss: 11.3137 - mean\_absolute\_error: 2.52451171/4840 [======>.......................] - ETA: 3s - loss: 11.3402 - mean\_absolute\_error: 2.52681222/4840 [======>.......................] - ETA: 3s - loss: 11.3450 - mean\_absolute\_error: 2.52771278/4840 [======>.......................] - ETA: 3s - loss: 11.3587 - mean\_absolute\_error: 2.53071331/4840 [=======>......................] - ETA: 3s - loss: 11.3658 - mean\_absolute\_error: 2.53231385/4840 [=======>......................] - ETA: 3s - loss: 11.3706 - mean\_absolute\_error: 2.53211440/4840 [=======>......................] - ETA: 3s - loss: 11.3687 - mean\_absolute\_error: 2.53241491/4840 [========>.....................] - ETA: 3s - loss: 11.3635 - mean\_absolute\_error: 2.53051545/4840 [========>.....................] - ETA: 3s - loss: 11.3558 - mean\_absolute\_error: 2.53011597/4840 [========>.....................] - ETA: 3s - loss: 11.3747 - mean\_absolute\_error: 2.53241649/4840 [=========>....................] - ETA: 3s - loss: 11.3744 - mean\_absolute\_error: 2.53271702/4840 [=========>....................] - ETA: 2s - loss: 11.3707 - mean\_absolute\_error: 2.53181757/4840 [=========>....................] - ETA: 2s - loss: 11.3754 - mean\_absolute\_error: 2.53221809/4840 [==========>...................] - ETA: 2s - loss: 11.3657 - mean\_absolute\_error: 2.53111859/4840 [==========>...................] - ETA: 2s - loss: 11.3665 - mean\_absolute\_error: 2.53091907/4840 [==========>...................] - ETA: 2s - loss: 11.3703 - mean\_absolute\_error: 2.53141956/4840 [===========>..................] - ETA: 2s - loss: 11.3895 - mean\_absolute\_error: 2.53442011/4840 [===========>..................] - ETA: 2s - loss: 11.4133 - mean\_absolute\_error: 2.53762065/4840 [===========>..................] - ETA: 2s - loss: 11.4078 - mean\_absolute\_error: 2.53632115/4840 [============>.................] - ETA: 2s - loss: 11.3932 - mean\_absolute\_error: 2.53492166/4840 [============>.................] - ETA: 2s - loss: 11.3955 - mean\_absolute\_error: 2.53532224/4840 [============>.................] - ETA: 2s - loss: 11.4006 - mean\_absolute\_error: 2.53562277/4840 [=============>................] - ETA: 2s - loss: 11.3969 - mean\_absolute\_error: 2.53502329/4840 [=============>................] - ETA: 2s - loss: 11.3943 - mean\_absolute\_error: 2.53522379/4840 [=============>................] - ETA: 2s - loss: 11.3983 - mean\_absolute\_error: 2.53562434/4840 [==============>...............] - ETA: 2s - loss: 11.3849 - mean\_absolute\_error: 2.53432485/4840 [==============>...............] - ETA: 2s - loss: 11.3928 - mean\_absolute\_error: 2.53502540/4840 [==============>...............] - ETA: 2s - loss: 11.4002 - mean\_absolute\_error: 2.53572593/4840 [===============>..............] - ETA: 2s - loss: 11.3952 - mean\_absolute\_error: 2.53502648/4840 [===============>..............] - ETA: 2s - loss: 11.3780 - mean\_absolute\_error: 2.53322701/4840 [===============>..............] - ETA: 2s - loss: 11.3761 - mean\_absolute\_error: 2.53312753/4840 [================>.............] - ETA: 1s - loss: 11.3910 - mean\_absolute\_error: 2.53482807/4840 [================>.............] - ETA: 1s - loss: 11.3864 - mean\_absolute\_error: 2.53442858/4840 [================>.............] - ETA: 1s - loss: 11.3988 - mean\_absolute\_error: 2.53582905/4840 [=================>............] - ETA: 1s - loss: 11.4057 - mean\_absolute\_error: 2.53702953/4840 [=================>............] - ETA: 1s - loss: 11.4211 - mean\_absolute\_error: 2.53872998/4840 [=================>............] - ETA: 1s - loss: 11.4145 - mean\_absolute\_error: 2.53823049/4840 [=================>............] - ETA: 1s - loss: 11.4104 - mean\_absolute\_error: 2.53843101/4840 [==================>...........] - ETA: 1s - loss: 11.4197 - mean\_absolute\_error: 2.53953155/4840 [==================>...........] - ETA: 1s - loss: 11.4181 - mean\_absolute\_error: 2.53923212/4840 [==================>...........] - ETA: 1s - loss: 11.4145 - mean\_absolute\_error: 2.53873268/4840 [===================>..........] - ETA: 1s - loss: 11.4187 - mean\_absolute\_error: 2.53963326/4840 [===================>..........] - ETA: 1s - loss: 11.4101 - mean\_absolute\_error: 2.53873384/4840 [===================>..........] - ETA: 1s - loss: 11.4127 - mean\_absolute\_error: 2.53903442/4840 [====================>.........] - ETA: 1s - loss: 11.4113 - mean\_absolute\_error: 2.53953499/4840 [====================>.........] - ETA: 1s - loss: 11.4064 - mean\_absolute\_error: 2.53913557/4840 [=====================>........] - ETA: 1s - loss: 11.4055 - mean\_absolute\_error: 2.53893616/4840 [=====================>........] - ETA: 1s - loss: 11.4083 - mean\_absolute\_error: 2.53963676/4840 [=====================>........] - ETA: 1s - loss: 11.4091 - mean\_absolute\_error: 2.53973735/4840 [======================>.......] - ETA: 1s - loss: 11.4053 - mean\_absolute\_error: 2.53943793/4840 [======================>.......] - ETA: 0s - loss: 11.3997 - mean\_absolute\_error: 2.53873851/4840 [======================>.......] - ETA: 0s - loss: 11.3969 - mean\_absolute\_error: 2.53853911/4840 [=======================>......] - ETA: 0s - loss: 11.4057 - mean\_absolute\_error: 2.53963972/4840 [=======================>......] - ETA: 0s - loss: 11.4034 - mean\_absolute\_error: 2.53914030/4840 [=======================>......] - ETA: 0s - loss: 11.3944 - mean\_absolute\_error: 2.53824089/4840 [========================>.....] - ETA: 0s - loss: 11.3975 - mean\_absolute\_error: 2.53884146/4840 [========================>.....] - ETA: 0s - loss: 11.3985 - mean\_absolute\_error: 2.53904203/4840 [=========================>....] - ETA: 0s - loss: 11.3883 - mean\_absolute\_error: 2.53784262/4840 [=========================>....] - ETA: 0s - loss: 11.3875 - mean\_absolute\_error: 2.53744321/4840 [=========================>....] - ETA: 0s - loss: 11.3899 - mean\_absolute\_error: 2.53764380/4840 [==========================>...] - ETA: 0s - loss: 11.3916 - mean\_absolute\_error: 2.53814436/4840 [==========================>...] - ETA: 0s - loss: 11.3973 - mean\_absolute\_error: 2.53904494/4840 [==========================>...] - ETA: 0s - loss: 11.3971 - mean\_absolute\_error: 2.53934551/4840 [===========================>..] - ETA: 0s - loss: 11.3954 - mean\_absolute\_error: 2.53944609/4840 [===========================>..] - ETA: 0s - loss: 11.3957 - mean\_absolute\_error: 2.53904659/4840 [===========================>..] - ETA: 0s - loss: 11.3894 - mean\_absolute\_error: 2.53844715/4840 [============================>.] - ETA: 0s - loss: 11.3964 - mean\_absolute\_error: 2.53954770/4840 [============================>.] - ETA: 0s - loss: 11.4003 - mean\_absolute\_error: 2.53984825/4840 [============================>.] - ETA: 0s - loss: 11.4076 - mean\_absolute\_error: 2.54104840/4840 [==============================] - 5s 975us/step - loss: 11.4026 - mean\_absolute\_error: 2.5403 - val\_loss: 12.0358 - val\_mean\_absolute\_error: 2.6174  
Epoch 13/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.0253 - mean\_absolute\_error: 2.5298 58/4840 [..............................] - ETA: 4s - loss: 11.0097 - mean\_absolute\_error: 2.5221 115/4840 [..............................] - ETA: 4s - loss: 11.2546 - mean\_absolute\_error: 2.5416 170/4840 [>.............................] - ETA: 4s - loss: 11.3071 - mean\_absolute\_error: 2.5468 227/4840 [>.............................] - ETA: 4s - loss: 11.2851 - mean\_absolute\_error: 2.5445 284/4840 [>.............................] - ETA: 4s - loss: 11.3137 - mean\_absolute\_error: 2.5450 341/4840 [=>............................] - ETA: 3s - loss: 11.2181 - mean\_absolute\_error: 2.5295 399/4840 [=>............................] - ETA: 3s - loss: 11.2747 - mean\_absolute\_error: 2.5332 457/4840 [=>............................] - ETA: 3s - loss: 11.2193 - mean\_absolute\_error: 2.5269 516/4840 [==>...........................] - ETA: 3s - loss: 11.2734 - mean\_absolute\_error: 2.5349 573/4840 [==>...........................] - ETA: 3s - loss: 11.2882 - mean\_absolute\_error: 2.5360 632/4840 [==>...........................] - ETA: 3s - loss: 11.2421 - mean\_absolute\_error: 2.5312 684/4840 [===>..........................] - ETA: 3s - loss: 11.2199 - mean\_absolute\_error: 2.5270 741/4840 [===>..........................] - ETA: 3s - loss: 11.2514 - mean\_absolute\_error: 2.5311 800/4840 [===>..........................] - ETA: 3s - loss: 11.2456 - mean\_absolute\_error: 2.5311 858/4840 [====>.........................] - ETA: 3s - loss: 11.2198 - mean\_absolute\_error: 2.5271 915/4840 [====>.........................] - ETA: 3s - loss: 11.2119 - mean\_absolute\_error: 2.5264 973/4840 [=====>........................] - ETA: 3s - loss: 11.2190 - mean\_absolute\_error: 2.52831033/4840 [=====>........................] - ETA: 3s - loss: 11.2166 - mean\_absolute\_error: 2.52891090/4840 [=====>........................] - ETA: 3s - loss: 11.2099 - mean\_absolute\_error: 2.52821149/4840 [======>.......................] - ETA: 3s - loss: 11.1948 - mean\_absolute\_error: 2.52711208/4840 [======>.......................] - ETA: 3s - loss: 11.1782 - mean\_absolute\_error: 2.52551268/4840 [======>.......................] - ETA: 3s - loss: 11.1925 - mean\_absolute\_error: 2.52871324/4840 [=======>......................] - ETA: 3s - loss: 11.1980 - mean\_absolute\_error: 2.52921382/4840 [=======>......................] - ETA: 3s - loss: 11.2114 - mean\_absolute\_error: 2.53101439/4840 [=======>......................] - ETA: 2s - loss: 11.2081 - mean\_absolute\_error: 2.53081498/4840 [========>.....................] - ETA: 2s - loss: 11.2035 - mean\_absolute\_error: 2.53121558/4840 [========>.....................] - ETA: 2s - loss: 11.2046 - mean\_absolute\_error: 2.53101618/4840 [=========>....................] - ETA: 2s - loss: 11.1997 - mean\_absolute\_error: 2.53011676/4840 [=========>....................] - ETA: 2s - loss: 11.2219 - mean\_absolute\_error: 2.53231735/4840 [=========>....................] - ETA: 2s - loss: 11.2387 - mean\_absolute\_error: 2.53361794/4840 [==========>...................] - ETA: 2s - loss: 11.2415 - mean\_absolute\_error: 2.53481851/4840 [==========>...................] - ETA: 2s - loss: 11.2487 - mean\_absolute\_error: 2.53541911/4840 [==========>...................] - ETA: 2s - loss: 11.2438 - mean\_absolute\_error: 2.53481971/4840 [===========>..................] - ETA: 2s - loss: 11.2629 - mean\_absolute\_error: 2.53642030/4840 [===========>..................] - ETA: 2s - loss: 11.2709 - mean\_absolute\_error: 2.53782087/4840 [===========>..................] - ETA: 2s - loss: 11.2735 - mean\_absolute\_error: 2.53772144/4840 [============>.................] - ETA: 2s - loss: 11.2610 - mean\_absolute\_error: 2.53672202/4840 [============>.................] - ETA: 2s - loss: 11.2561 - mean\_absolute\_error: 2.53612251/4840 [============>.................] - ETA: 2s - loss: 11.2573 - mean\_absolute\_error: 2.53662279/4840 [=============>................] - ETA: 2s - loss: 11.2584 - mean\_absolute\_error: 2.53662322/4840 [=============>................] - ETA: 2s - loss: 11.2629 - mean\_absolute\_error: 2.53752374/4840 [=============>................] - ETA: 2s - loss: 11.2468 - mean\_absolute\_error: 2.53552408/4840 [=============>................] - ETA: 2s - loss: 11.2390 - mean\_absolute\_error: 2.53502459/4840 [==============>...............] - ETA: 2s - loss: 11.2322 - mean\_absolute\_error: 2.53452511/4840 [==============>...............] - ETA: 2s - loss: 11.2322 - mean\_absolute\_error: 2.53432566/4840 [==============>...............] - ETA: 2s - loss: 11.2213 - mean\_absolute\_error: 2.53272623/4840 [===============>..............] - ETA: 2s - loss: 11.2194 - mean\_absolute\_error: 2.53222680/4840 [===============>..............] - ETA: 1s - loss: 11.2142 - mean\_absolute\_error: 2.53182738/4840 [===============>..............] - ETA: 1s - loss: 11.2123 - mean\_absolute\_error: 2.53172795/4840 [================>.............] - ETA: 1s - loss: 11.2081 - mean\_absolute\_error: 2.53142852/4840 [================>.............] - ETA: 1s - loss: 11.2047 - mean\_absolute\_error: 2.53042910/4840 [=================>............] - ETA: 1s - loss: 11.2112 - mean\_absolute\_error: 2.53102968/4840 [=================>............] - ETA: 1s - loss: 11.2200 - mean\_absolute\_error: 2.53193028/4840 [=================>............] - ETA: 1s - loss: 11.2266 - mean\_absolute\_error: 2.53353088/4840 [==================>...........] - ETA: 1s - loss: 11.2096 - mean\_absolute\_error: 2.53153145/4840 [==================>...........] - ETA: 1s - loss: 11.2091 - mean\_absolute\_error: 2.53093203/4840 [==================>...........] - ETA: 1s - loss: 11.1987 - mean\_absolute\_error: 2.52963262/4840 [===================>..........] - ETA: 1s - loss: 11.1927 - mean\_absolute\_error: 2.52863321/4840 [===================>..........] - ETA: 1s - loss: 11.1977 - mean\_absolute\_error: 2.52903379/4840 [===================>..........] - ETA: 1s - loss: 11.1948 - mean\_absolute\_error: 2.52903438/4840 [====================>.........] - ETA: 1s - loss: 11.2061 - mean\_absolute\_error: 2.53073496/4840 [====================>.........] - ETA: 1s - loss: 11.2002 - mean\_absolute\_error: 2.52943552/4840 [=====================>........] - ETA: 1s - loss: 11.2010 - mean\_absolute\_error: 2.52963608/4840 [=====================>........] - ETA: 1s - loss: 11.1995 - mean\_absolute\_error: 2.52933666/4840 [=====================>........] - ETA: 1s - loss: 11.2097 - mean\_absolute\_error: 2.53023724/4840 [======================>.......] - ETA: 0s - loss: 11.2133 - mean\_absolute\_error: 2.53073782/4840 [======================>.......] - ETA: 0s - loss: 11.2101 - mean\_absolute\_error: 2.53003841/4840 [======================>.......] - ETA: 0s - loss: 11.2138 - mean\_absolute\_error: 2.53033901/4840 [=======================>......] - ETA: 0s - loss: 11.2228 - mean\_absolute\_error: 2.53163959/4840 [=======================>......] - ETA: 0s - loss: 11.2308 - mean\_absolute\_error: 2.53304017/4840 [=======================>......] - ETA: 0s - loss: 11.2389 - mean\_absolute\_error: 2.53374076/4840 [========================>.....] - ETA: 0s - loss: 11.2307 - mean\_absolute\_error: 2.53284136/4840 [========================>.....] - ETA: 0s - loss: 11.2287 - mean\_absolute\_error: 2.53284196/4840 [=========================>....] - ETA: 0s - loss: 11.2313 - mean\_absolute\_error: 2.53344254/4840 [=========================>....] - ETA: 0s - loss: 11.2380 - mean\_absolute\_error: 2.53424311/4840 [=========================>....] - ETA: 0s - loss: 11.2221 - mean\_absolute\_error: 2.53214369/4840 [==========================>...] - ETA: 0s - loss: 11.2172 - mean\_absolute\_error: 2.53154426/4840 [==========================>...] - ETA: 0s - loss: 11.2152 - mean\_absolute\_error: 2.53124485/4840 [==========================>...] - ETA: 0s - loss: 11.2123 - mean\_absolute\_error: 2.53094544/4840 [===========================>..] - ETA: 0s - loss: 11.2096 - mean\_absolute\_error: 2.53084602/4840 [===========================>..] - ETA: 0s - loss: 11.2104 - mean\_absolute\_error: 2.53094660/4840 [===========================>..] - ETA: 0s - loss: 11.2018 - mean\_absolute\_error: 2.52974717/4840 [============================>.] - ETA: 0s - loss: 11.2006 - mean\_absolute\_error: 2.52944774/4840 [============================>.] - ETA: 0s - loss: 11.2028 - mean\_absolute\_error: 2.52994832/4840 [============================>.] - ETA: 0s - loss: 11.2008 - mean\_absolute\_error: 2.52954840/4840 [==============================] - 4s 928us/step - loss: 11.2008 - mean\_absolute\_error: 2.5295 - val\_loss: 11.8926 - val\_mean\_absolute\_error: 2.6102  
Epoch 14/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.7026 - mean\_absolute\_error: 2.0435 60/4840 [..............................] - ETA: 4s - loss: 10.8563 - mean\_absolute\_error: 2.5007 120/4840 [..............................] - ETA: 4s - loss: 11.0603 - mean\_absolute\_error: 2.5259 177/4840 [>.............................] - ETA: 4s - loss: 10.8957 - mean\_absolute\_error: 2.4937 230/4840 [>.............................] - ETA: 4s - loss: 10.7925 - mean\_absolute\_error: 2.4848 280/4840 [>.............................] - ETA: 4s - loss: 10.7903 - mean\_absolute\_error: 2.4837 335/4840 [=>............................] - ETA: 4s - loss: 10.8444 - mean\_absolute\_error: 2.4923 393/4840 [=>............................] - ETA: 4s - loss: 10.8050 - mean\_absolute\_error: 2.4868 450/4840 [=>............................] - ETA: 3s - loss: 10.9046 - mean\_absolute\_error: 2.4982 509/4840 [==>...........................] - ETA: 3s - loss: 10.9748 - mean\_absolute\_error: 2.5062 566/4840 [==>...........................] - ETA: 3s - loss: 10.9603 - mean\_absolute\_error: 2.5062 624/4840 [==>...........................] - ETA: 3s - loss: 10.9939 - mean\_absolute\_error: 2.5103 682/4840 [===>..........................] - ETA: 3s - loss: 11.0043 - mean\_absolute\_error: 2.5116 739/4840 [===>..........................] - ETA: 3s - loss: 11.0601 - mean\_absolute\_error: 2.5170 798/4840 [===>..........................] - ETA: 3s - loss: 11.1202 - mean\_absolute\_error: 2.5261 856/4840 [====>.........................] - ETA: 3s - loss: 11.1125 - mean\_absolute\_error: 2.5240 915/4840 [====>.........................] - ETA: 3s - loss: 11.1697 - mean\_absolute\_error: 2.5316 975/4840 [=====>........................] - ETA: 3s - loss: 11.1227 - mean\_absolute\_error: 2.52511034/4840 [=====>........................] - ETA: 3s - loss: 11.1370 - mean\_absolute\_error: 2.52671092/4840 [=====>........................] - ETA: 3s - loss: 11.1111 - mean\_absolute\_error: 2.52411151/4840 [======>.......................] - ETA: 3s - loss: 11.1754 - mean\_absolute\_error: 2.53261210/4840 [======>.......................] - ETA: 3s - loss: 11.1728 - mean\_absolute\_error: 2.53301269/4840 [======>.......................] - ETA: 3s - loss: 11.1672 - mean\_absolute\_error: 2.53161327/4840 [=======>......................] - ETA: 3s - loss: 11.1527 - mean\_absolute\_error: 2.52951385/4840 [=======>......................] - ETA: 3s - loss: 11.1392 - mean\_absolute\_error: 2.52671445/4840 [=======>......................] - ETA: 2s - loss: 11.1102 - mean\_absolute\_error: 2.52391503/4840 [========>.....................] - ETA: 2s - loss: 11.1352 - mean\_absolute\_error: 2.52661559/4840 [========>.....................] - ETA: 2s - loss: 11.1206 - mean\_absolute\_error: 2.52471619/4840 [=========>....................] - ETA: 2s - loss: 11.1218 - mean\_absolute\_error: 2.52521677/4840 [=========>....................] - ETA: 2s - loss: 11.0976 - mean\_absolute\_error: 2.52281737/4840 [=========>....................] - ETA: 2s - loss: 11.1134 - mean\_absolute\_error: 2.52501795/4840 [==========>...................] - ETA: 2s - loss: 11.1217 - mean\_absolute\_error: 2.52631853/4840 [==========>...................] - ETA: 2s - loss: 11.1288 - mean\_absolute\_error: 2.52711909/4840 [==========>...................] - ETA: 2s - loss: 11.1226 - mean\_absolute\_error: 2.52621967/4840 [===========>..................] - ETA: 2s - loss: 11.1106 - mean\_absolute\_error: 2.52482025/4840 [===========>..................] - ETA: 2s - loss: 11.1182 - mean\_absolute\_error: 2.52562083/4840 [===========>..................] - ETA: 2s - loss: 11.1169 - mean\_absolute\_error: 2.52482141/4840 [============>.................] - ETA: 2s - loss: 11.1058 - mean\_absolute\_error: 2.52342200/4840 [============>.................] - ETA: 2s - loss: 11.1157 - mean\_absolute\_error: 2.52552259/4840 [=============>................] - ETA: 2s - loss: 11.1266 - mean\_absolute\_error: 2.52702319/4840 [=============>................] - ETA: 2s - loss: 11.1436 - mean\_absolute\_error: 2.52932376/4840 [=============>................] - ETA: 2s - loss: 11.1411 - mean\_absolute\_error: 2.52882434/4840 [==============>...............] - ETA: 2s - loss: 11.1365 - mean\_absolute\_error: 2.52872493/4840 [==============>...............] - ETA: 2s - loss: 11.1343 - mean\_absolute\_error: 2.52832553/4840 [==============>...............] - ETA: 1s - loss: 11.1331 - mean\_absolute\_error: 2.52792611/4840 [===============>..............] - ETA: 1s - loss: 11.1280 - mean\_absolute\_error: 2.52792669/4840 [===============>..............] - ETA: 1s - loss: 11.1157 - mean\_absolute\_error: 2.52682727/4840 [===============>..............] - ETA: 1s - loss: 11.0961 - mean\_absolute\_error: 2.52442786/4840 [================>.............] - ETA: 1s - loss: 11.1016 - mean\_absolute\_error: 2.52542846/4840 [================>.............] - ETA: 1s - loss: 11.0933 - mean\_absolute\_error: 2.52432903/4840 [================>.............] - ETA: 1s - loss: 11.0869 - mean\_absolute\_error: 2.52352961/4840 [=================>............] - ETA: 1s - loss: 11.0879 - mean\_absolute\_error: 2.52373019/4840 [=================>............] - ETA: 1s - loss: 11.0808 - mean\_absolute\_error: 2.52293075/4840 [==================>...........] - ETA: 1s - loss: 11.0866 - mean\_absolute\_error: 2.52393133/4840 [==================>...........] - ETA: 1s - loss: 11.0811 - mean\_absolute\_error: 2.52283191/4840 [==================>...........] - ETA: 1s - loss: 11.0786 - mean\_absolute\_error: 2.52283250/4840 [===================>..........] - ETA: 1s - loss: 11.0855 - mean\_absolute\_error: 2.52393308/4840 [===================>..........] - ETA: 1s - loss: 11.0832 - mean\_absolute\_error: 2.52333366/4840 [===================>..........] - ETA: 1s - loss: 11.0768 - mean\_absolute\_error: 2.52253426/4840 [====================>.........] - ETA: 1s - loss: 11.0706 - mean\_absolute\_error: 2.52193485/4840 [====================>.........] - ETA: 1s - loss: 11.0615 - mean\_absolute\_error: 2.52073544/4840 [====================>.........] - ETA: 1s - loss: 11.0604 - mean\_absolute\_error: 2.52083601/4840 [=====================>........] - ETA: 1s - loss: 11.0663 - mean\_absolute\_error: 2.52183659/4840 [=====================>........] - ETA: 1s - loss: 11.0613 - mean\_absolute\_error: 2.52113717/4840 [======================>.......] - ETA: 0s - loss: 11.0629 - mean\_absolute\_error: 2.52113776/4840 [======================>.......] - ETA: 0s - loss: 11.0638 - mean\_absolute\_error: 2.52143834/4840 [======================>.......] - ETA: 0s - loss: 11.0499 - mean\_absolute\_error: 2.51973891/4840 [=======================>......] - ETA: 0s - loss: 11.0547 - mean\_absolute\_error: 2.52053948/4840 [=======================>......] - ETA: 0s - loss: 11.0554 - mean\_absolute\_error: 2.52074007/4840 [=======================>......] - ETA: 0s - loss: 11.0494 - mean\_absolute\_error: 2.52034066/4840 [========================>.....] - ETA: 0s - loss: 11.0533 - mean\_absolute\_error: 2.52064125/4840 [========================>.....] - ETA: 0s - loss: 11.0443 - mean\_absolute\_error: 2.51964181/4840 [========================>.....] - ETA: 0s - loss: 11.0418 - mean\_absolute\_error: 2.51954239/4840 [=========================>....] - ETA: 0s - loss: 11.0491 - mean\_absolute\_error: 2.52014296/4840 [=========================>....] - ETA: 0s - loss: 11.0574 - mean\_absolute\_error: 2.52094354/4840 [=========================>....] - ETA: 0s - loss: 11.0512 - mean\_absolute\_error: 2.52004411/4840 [==========================>...] - ETA: 0s - loss: 11.0481 - mean\_absolute\_error: 2.51954469/4840 [==========================>...] - ETA: 0s - loss: 11.0483 - mean\_absolute\_error: 2.51964528/4840 [===========================>..] - ETA: 0s - loss: 11.0527 - mean\_absolute\_error: 2.52004588/4840 [===========================>..] - ETA: 0s - loss: 11.0496 - mean\_absolute\_error: 2.51954633/4840 [===========================>..] - ETA: 0s - loss: 11.0581 - mean\_absolute\_error: 2.52034688/4840 [============================>.] - ETA: 0s - loss: 11.0575 - mean\_absolute\_error: 2.52034748/4840 [============================>.] - ETA: 0s - loss: 11.0471 - mean\_absolute\_error: 2.51934806/4840 [============================>.] - ETA: 0s - loss: 11.0445 - mean\_absolute\_error: 2.51904840/4840 [==============================] - 4s 922us/step - loss: 11.0454 - mean\_absolute\_error: 2.5190 - val\_loss: 11.7836 - val\_mean\_absolute\_error: 2.6046  
Epoch 15/100  
 1/4840 [..............................] - ETA: 9s - loss: 16.6489 - mean\_absolute\_error: 3.4037 60/4840 [..............................] - ETA: 4s - loss: 10.7919 - mean\_absolute\_error: 2.5146 120/4840 [..............................] - ETA: 4s - loss: 11.2674 - mean\_absolute\_error: 2.5699 181/4840 [>.............................] - ETA: 3s - loss: 11.0575 - mean\_absolute\_error: 2.5367 231/4840 [>.............................] - ETA: 4s - loss: 11.1445 - mean\_absolute\_error: 2.5518 282/4840 [>.............................] - ETA: 4s - loss: 11.0623 - mean\_absolute\_error: 2.5317 336/4840 [=>............................] - ETA: 4s - loss: 10.9916 - mean\_absolute\_error: 2.5226 391/4840 [=>............................] - ETA: 4s - loss: 10.9296 - mean\_absolute\_error: 2.5131 445/4840 [=>............................] - ETA: 3s - loss: 10.9021 - mean\_absolute\_error: 2.5098 500/4840 [==>...........................] - ETA: 3s - loss: 10.9037 - mean\_absolute\_error: 2.5098 555/4840 [==>...........................] - ETA: 3s - loss: 10.8867 - mean\_absolute\_error: 2.5089 613/4840 [==>...........................] - ETA: 3s - loss: 10.9573 - mean\_absolute\_error: 2.5170 671/4840 [===>..........................] - ETA: 3s - loss: 10.9061 - mean\_absolute\_error: 2.5104 729/4840 [===>..........................] - ETA: 3s - loss: 10.8936 - mean\_absolute\_error: 2.5089 787/4840 [===>..........................] - ETA: 3s - loss: 10.8686 - mean\_absolute\_error: 2.5042 845/4840 [====>.........................] - ETA: 3s - loss: 10.8719 - mean\_absolute\_error: 2.5053 902/4840 [====>.........................] - ETA: 3s - loss: 10.8874 - mean\_absolute\_error: 2.5078 960/4840 [====>.........................] - ETA: 3s - loss: 10.8862 - mean\_absolute\_error: 2.50691017/4840 [=====>........................] - ETA: 3s - loss: 10.8632 - mean\_absolute\_error: 2.50361075/4840 [=====>........................] - ETA: 3s - loss: 10.8158 - mean\_absolute\_error: 2.49671132/4840 [======>.......................] - ETA: 3s - loss: 10.8273 - mean\_absolute\_error: 2.49851191/4840 [======>.......................] - ETA: 3s - loss: 10.8417 - mean\_absolute\_error: 2.50021249/4840 [======>.......................] - ETA: 3s - loss: 10.8413 - mean\_absolute\_error: 2.50011307/4840 [=======>......................] - ETA: 3s - loss: 10.7972 - mean\_absolute\_error: 2.49361363/4840 [=======>......................] - ETA: 3s - loss: 10.8069 - mean\_absolute\_error: 2.49461420/4840 [=======>......................] - ETA: 3s - loss: 10.8066 - mean\_absolute\_error: 2.49461476/4840 [========>.....................] - ETA: 2s - loss: 10.8144 - mean\_absolute\_error: 2.49431514/4840 [========>.....................] - ETA: 2s - loss: 10.8263 - mean\_absolute\_error: 2.49551566/4840 [========>.....................] - ETA: 2s - loss: 10.8070 - mean\_absolute\_error: 2.49251623/4840 [=========>....................] - ETA: 2s - loss: 10.8048 - mean\_absolute\_error: 2.49251681/4840 [=========>....................] - ETA: 2s - loss: 10.7870 - mean\_absolute\_error: 2.48991738/4840 [=========>....................] - ETA: 2s - loss: 10.7787 - mean\_absolute\_error: 2.48801797/4840 [==========>...................] - ETA: 2s - loss: 10.7771 - mean\_absolute\_error: 2.48761855/4840 [==========>...................] - ETA: 2s - loss: 10.7890 - mean\_absolute\_error: 2.48901913/4840 [==========>...................] - ETA: 2s - loss: 10.7952 - mean\_absolute\_error: 2.48941965/4840 [===========>..................] - ETA: 2s - loss: 10.8133 - mean\_absolute\_error: 2.49192021/4840 [===========>..................] - ETA: 2s - loss: 10.8125 - mean\_absolute\_error: 2.49192079/4840 [===========>..................] - ETA: 2s - loss: 10.8154 - mean\_absolute\_error: 2.49212137/4840 [============>.................] - ETA: 2s - loss: 10.8259 - mean\_absolute\_error: 2.49432187/4840 [============>.................] - ETA: 2s - loss: 10.8208 - mean\_absolute\_error: 2.49382229/4840 [============>.................] - ETA: 2s - loss: 10.8274 - mean\_absolute\_error: 2.49472284/4840 [=============>................] - ETA: 2s - loss: 10.8396 - mean\_absolute\_error: 2.49632342/4840 [=============>................] - ETA: 2s - loss: 10.8386 - mean\_absolute\_error: 2.49642398/4840 [=============>................] - ETA: 2s - loss: 10.8492 - mean\_absolute\_error: 2.49712453/4840 [==============>...............] - ETA: 2s - loss: 10.8578 - mean\_absolute\_error: 2.49862511/4840 [==============>...............] - ETA: 2s - loss: 10.8687 - mean\_absolute\_error: 2.50022569/4840 [==============>...............] - ETA: 2s - loss: 10.8745 - mean\_absolute\_error: 2.50102627/4840 [===============>..............] - ETA: 1s - loss: 10.8790 - mean\_absolute\_error: 2.50142685/4840 [===============>..............] - ETA: 1s - loss: 10.8886 - mean\_absolute\_error: 2.50272744/4840 [================>.............] - ETA: 1s - loss: 10.8949 - mean\_absolute\_error: 2.50342803/4840 [================>.............] - ETA: 1s - loss: 10.8794 - mean\_absolute\_error: 2.50192862/4840 [================>.............] - ETA: 1s - loss: 10.8760 - mean\_absolute\_error: 2.50182921/4840 [=================>............] - ETA: 1s - loss: 10.8778 - mean\_absolute\_error: 2.50202979/4840 [=================>............] - ETA: 1s - loss: 10.9000 - mean\_absolute\_error: 2.50503039/4840 [=================>............] - ETA: 1s - loss: 10.9052 - mean\_absolute\_error: 2.50603096/4840 [==================>...........] - ETA: 1s - loss: 10.9234 - mean\_absolute\_error: 2.50883154/4840 [==================>...........] - ETA: 1s - loss: 10.9239 - mean\_absolute\_error: 2.50873212/4840 [==================>...........] - ETA: 1s - loss: 10.9260 - mean\_absolute\_error: 2.50883269/4840 [===================>..........] - ETA: 1s - loss: 10.9202 - mean\_absolute\_error: 2.50873328/4840 [===================>..........] - ETA: 1s - loss: 10.9043 - mean\_absolute\_error: 2.50693388/4840 [====================>.........] - ETA: 1s - loss: 10.8970 - mean\_absolute\_error: 2.50613447/4840 [====================>.........] - ETA: 1s - loss: 10.8953 - mean\_absolute\_error: 2.50593505/4840 [====================>.........] - ETA: 1s - loss: 10.9013 - mean\_absolute\_error: 2.50653561/4840 [=====================>........] - ETA: 1s - loss: 10.8930 - mean\_absolute\_error: 2.50593620/4840 [=====================>........] - ETA: 1s - loss: 10.8943 - mean\_absolute\_error: 2.50623678/4840 [=====================>........] - ETA: 1s - loss: 10.8910 - mean\_absolute\_error: 2.50523737/4840 [======================>.......] - ETA: 0s - loss: 10.8936 - mean\_absolute\_error: 2.50563795/4840 [======================>.......] - ETA: 0s - loss: 10.9036 - mean\_absolute\_error: 2.50683853/4840 [======================>.......] - ETA: 0s - loss: 10.8962 - mean\_absolute\_error: 2.50593912/4840 [=======================>......] - ETA: 0s - loss: 10.8925 - mean\_absolute\_error: 2.50563972/4840 [=======================>......] - ETA: 0s - loss: 10.8970 - mean\_absolute\_error: 2.50604031/4840 [=======================>......] - ETA: 0s - loss: 10.9062 - mean\_absolute\_error: 2.50684091/4840 [========================>.....] - ETA: 0s - loss: 10.9053 - mean\_absolute\_error: 2.50654149/4840 [========================>.....] - ETA: 0s - loss: 10.9116 - mean\_absolute\_error: 2.50724208/4840 [=========================>....] - ETA: 0s - loss: 10.9122 - mean\_absolute\_error: 2.50744267/4840 [=========================>....] - ETA: 0s - loss: 10.9198 - mean\_absolute\_error: 2.50824326/4840 [=========================>....] - ETA: 0s - loss: 10.9228 - mean\_absolute\_error: 2.50844385/4840 [==========================>...] - ETA: 0s - loss: 10.9233 - mean\_absolute\_error: 2.50844443/4840 [==========================>...] - ETA: 0s - loss: 10.9287 - mean\_absolute\_error: 2.50944496/4840 [==========================>...] - ETA: 0s - loss: 10.9295 - mean\_absolute\_error: 2.50914549/4840 [===========================>..] - ETA: 0s - loss: 10.9284 - mean\_absolute\_error: 2.50904599/4840 [===========================>..] - ETA: 0s - loss: 10.9212 - mean\_absolute\_error: 2.50834649/4840 [===========================>..] - ETA: 0s - loss: 10.9193 - mean\_absolute\_error: 2.50794699/4840 [============================>.] - ETA: 0s - loss: 10.9232 - mean\_absolute\_error: 2.50834749/4840 [============================>.] - ETA: 0s - loss: 10.9237 - mean\_absolute\_error: 2.50814799/4840 [============================>.] - ETA: 0s - loss: 10.9288 - mean\_absolute\_error: 2.50874840/4840 [==============================] - 5s 940us/step - loss: 10.9267 - mean\_absolute\_error: 2.5085 - val\_loss: 11.7020 - val\_mean\_absolute\_error: 2.6004  
Epoch 16/100  
 1/4840 [..............................] - ETA: 4s - loss: 13.1876 - mean\_absolute\_error: 3.0152 57/4840 [..............................] - ETA: 4s - loss: 10.8959 - mean\_absolute\_error: 2.5137 115/4840 [..............................] - ETA: 4s - loss: 10.9965 - mean\_absolute\_error: 2.5241 173/4840 [>.............................] - ETA: 4s - loss: 10.6559 - mean\_absolute\_error: 2.4749 229/4840 [>.............................] - ETA: 4s - loss: 10.5799 - mean\_absolute\_error: 2.4647 285/4840 [>.............................] - ETA: 4s - loss: 10.6418 - mean\_absolute\_error: 2.4714 342/4840 [=>............................] - ETA: 4s - loss: 10.6456 - mean\_absolute\_error: 2.4719 399/4840 [=>............................] - ETA: 3s - loss: 10.6086 - mean\_absolute\_error: 2.4692 455/4840 [=>............................] - ETA: 3s - loss: 10.7114 - mean\_absolute\_error: 2.4816 501/4840 [==>...........................] - ETA: 3s - loss: 10.7195 - mean\_absolute\_error: 2.4841 549/4840 [==>...........................] - ETA: 3s - loss: 10.7127 - mean\_absolute\_error: 2.4867 599/4840 [==>...........................] - ETA: 3s - loss: 10.7026 - mean\_absolute\_error: 2.4864 652/4840 [===>..........................] - ETA: 3s - loss: 10.6664 - mean\_absolute\_error: 2.4818 701/4840 [===>..........................] - ETA: 3s - loss: 10.7081 - mean\_absolute\_error: 2.4886 755/4840 [===>..........................] - ETA: 3s - loss: 10.6993 - mean\_absolute\_error: 2.4878 806/4840 [===>..........................] - ETA: 3s - loss: 10.7053 - mean\_absolute\_error: 2.4888 860/4840 [====>.........................] - ETA: 3s - loss: 10.6689 - mean\_absolute\_error: 2.4841 914/4840 [====>.........................] - ETA: 3s - loss: 10.6634 - mean\_absolute\_error: 2.4827 967/4840 [====>.........................] - ETA: 3s - loss: 10.6697 - mean\_absolute\_error: 2.48281021/4840 [=====>........................] - ETA: 3s - loss: 10.6315 - mean\_absolute\_error: 2.47881072/4840 [=====>........................] - ETA: 3s - loss: 10.6529 - mean\_absolute\_error: 2.47901122/4840 [=====>........................] - ETA: 3s - loss: 10.6574 - mean\_absolute\_error: 2.48051171/4840 [======>.......................] - ETA: 3s - loss: 10.6845 - mean\_absolute\_error: 2.48371223/4840 [======>.......................] - ETA: 3s - loss: 10.6857 - mean\_absolute\_error: 2.48341275/4840 [======>.......................] - ETA: 3s - loss: 10.6857 - mean\_absolute\_error: 2.48361327/4840 [=======>......................] - ETA: 3s - loss: 10.6851 - mean\_absolute\_error: 2.48331382/4840 [=======>......................] - ETA: 3s - loss: 10.6978 - mean\_absolute\_error: 2.48461439/4840 [=======>......................] - ETA: 3s - loss: 10.6961 - mean\_absolute\_error: 2.48421494/4840 [========>.....................] - ETA: 3s - loss: 10.7144 - mean\_absolute\_error: 2.48591550/4840 [========>.....................] - ETA: 3s - loss: 10.7024 - mean\_absolute\_error: 2.48521608/4840 [========>.....................] - ETA: 3s - loss: 10.7164 - mean\_absolute\_error: 2.48721666/4840 [=========>....................] - ETA: 2s - loss: 10.7268 - mean\_absolute\_error: 2.48751723/4840 [=========>....................] - ETA: 2s - loss: 10.7057 - mean\_absolute\_error: 2.48451777/4840 [==========>...................] - ETA: 2s - loss: 10.6841 - mean\_absolute\_error: 2.48221831/4840 [==========>...................] - ETA: 2s - loss: 10.6743 - mean\_absolute\_error: 2.48021886/4840 [==========>...................] - ETA: 2s - loss: 10.6941 - mean\_absolute\_error: 2.48201943/4840 [===========>..................] - ETA: 2s - loss: 10.7036 - mean\_absolute\_error: 2.48372001/4840 [===========>..................] - ETA: 2s - loss: 10.6964 - mean\_absolute\_error: 2.48272054/4840 [===========>..................] - ETA: 2s - loss: 10.6990 - mean\_absolute\_error: 2.48292111/4840 [============>.................] - ETA: 2s - loss: 10.6883 - mean\_absolute\_error: 2.48192168/4840 [============>.................] - ETA: 2s - loss: 10.6949 - mean\_absolute\_error: 2.48362226/4840 [============>.................] - ETA: 2s - loss: 10.6939 - mean\_absolute\_error: 2.48382284/4840 [=============>................] - ETA: 2s - loss: 10.6876 - mean\_absolute\_error: 2.48322341/4840 [=============>................] - ETA: 2s - loss: 10.6992 - mean\_absolute\_error: 2.48512398/4840 [=============>................] - ETA: 2s - loss: 10.6956 - mean\_absolute\_error: 2.48472455/4840 [==============>...............] - ETA: 2s - loss: 10.6981 - mean\_absolute\_error: 2.48472512/4840 [==============>...............] - ETA: 2s - loss: 10.7032 - mean\_absolute\_error: 2.48532568/4840 [==============>...............] - ETA: 2s - loss: 10.7090 - mean\_absolute\_error: 2.48612626/4840 [===============>..............] - ETA: 2s - loss: 10.7226 - mean\_absolute\_error: 2.48762684/4840 [===============>..............] - ETA: 1s - loss: 10.7256 - mean\_absolute\_error: 2.48802743/4840 [================>.............] - ETA: 1s - loss: 10.7375 - mean\_absolute\_error: 2.48932801/4840 [================>.............] - ETA: 1s - loss: 10.7517 - mean\_absolute\_error: 2.49012859/4840 [================>.............] - ETA: 1s - loss: 10.7370 - mean\_absolute\_error: 2.48842917/4840 [=================>............] - ETA: 1s - loss: 10.7442 - mean\_absolute\_error: 2.48892974/4840 [=================>............] - ETA: 1s - loss: 10.7607 - mean\_absolute\_error: 2.49153033/4840 [=================>............] - ETA: 1s - loss: 10.7585 - mean\_absolute\_error: 2.49113091/4840 [==================>...........] - ETA: 1s - loss: 10.7783 - mean\_absolute\_error: 2.49363149/4840 [==================>...........] - ETA: 1s - loss: 10.7985 - mean\_absolute\_error: 2.49643207/4840 [==================>...........] - ETA: 1s - loss: 10.7992 - mean\_absolute\_error: 2.49633264/4840 [===================>..........] - ETA: 1s - loss: 10.7930 - mean\_absolute\_error: 2.49553322/4840 [===================>..........] - ETA: 1s - loss: 10.7966 - mean\_absolute\_error: 2.49633382/4840 [===================>..........] - ETA: 1s - loss: 10.7927 - mean\_absolute\_error: 2.49583441/4840 [====================>.........] - ETA: 1s - loss: 10.7992 - mean\_absolute\_error: 2.49733500/4840 [====================>.........] - ETA: 1s - loss: 10.7943 - mean\_absolute\_error: 2.49653558/4840 [=====================>........] - ETA: 1s - loss: 10.7828 - mean\_absolute\_error: 2.49493615/4840 [=====================>........] - ETA: 1s - loss: 10.7976 - mean\_absolute\_error: 2.49653672/4840 [=====================>........] - ETA: 1s - loss: 10.7996 - mean\_absolute\_error: 2.49663731/4840 [======================>.......] - ETA: 1s - loss: 10.7998 - mean\_absolute\_error: 2.49673790/4840 [======================>.......] - ETA: 0s - loss: 10.8014 - mean\_absolute\_error: 2.49703850/4840 [======================>.......] - ETA: 0s - loss: 10.8076 - mean\_absolute\_error: 2.49783909/4840 [=======================>......] - ETA: 0s - loss: 10.8146 - mean\_absolute\_error: 2.49883969/4840 [=======================>......] - ETA: 0s - loss: 10.8182 - mean\_absolute\_error: 2.49944027/4840 [=======================>......] - ETA: 0s - loss: 10.8149 - mean\_absolute\_error: 2.49914085/4840 [========================>.....] - ETA: 0s - loss: 10.8138 - mean\_absolute\_error: 2.49914142/4840 [========================>.....] - ETA: 0s - loss: 10.8139 - mean\_absolute\_error: 2.49914200/4840 [=========================>....] - ETA: 0s - loss: 10.8179 - mean\_absolute\_error: 2.49984259/4840 [=========================>....] - ETA: 0s - loss: 10.8095 - mean\_absolute\_error: 2.49854317/4840 [=========================>....] - ETA: 0s - loss: 10.8151 - mean\_absolute\_error: 2.49934376/4840 [==========================>...] - ETA: 0s - loss: 10.8181 - mean\_absolute\_error: 2.49984434/4840 [==========================>...] - ETA: 0s - loss: 10.8093 - mean\_absolute\_error: 2.49884494/4840 [==========================>...] - ETA: 0s - loss: 10.8153 - mean\_absolute\_error: 2.49934555/4840 [===========================>..] - ETA: 0s - loss: 10.8179 - mean\_absolute\_error: 2.49964613/4840 [===========================>..] - ETA: 0s - loss: 10.8160 - mean\_absolute\_error: 2.49954674/4840 [===========================>..] - ETA: 0s - loss: 10.8171 - mean\_absolute\_error: 2.49964735/4840 [============================>.] - ETA: 0s - loss: 10.8217 - mean\_absolute\_error: 2.49974796/4840 [============================>.] - ETA: 0s - loss: 10.8293 - mean\_absolute\_error: 2.50064840/4840 [==============================] - 5s 935us/step - loss: 10.8341 - mean\_absolute\_error: 2.5012 - val\_loss: 11.6414 - val\_mean\_absolute\_error: 2.5967  
Epoch 17/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.4888 - mean\_absolute\_error: 2.1514 59/4840 [..............................] - ETA: 4s - loss: 10.8197 - mean\_absolute\_error: 2.4824 115/4840 [..............................] - ETA: 4s - loss: 10.6241 - mean\_absolute\_error: 2.4676 175/4840 [>.............................] - ETA: 4s - loss: 10.5640 - mean\_absolute\_error: 2.4713 233/4840 [>.............................] - ETA: 4s - loss: 10.5415 - mean\_absolute\_error: 2.4661 291/4840 [>.............................] - ETA: 3s - loss: 10.4710 - mean\_absolute\_error: 2.4545 351/4840 [=>............................] - ETA: 3s - loss: 10.4767 - mean\_absolute\_error: 2.4526 412/4840 [=>............................] - ETA: 3s - loss: 10.4516 - mean\_absolute\_error: 2.4539 470/4840 [=>............................] - ETA: 3s - loss: 10.4961 - mean\_absolute\_error: 2.4622 530/4840 [==>...........................] - ETA: 3s - loss: 10.5555 - mean\_absolute\_error: 2.4686 590/4840 [==>...........................] - ETA: 3s - loss: 10.6221 - mean\_absolute\_error: 2.4772 648/4840 [===>..........................] - ETA: 3s - loss: 10.6192 - mean\_absolute\_error: 2.4754 707/4840 [===>..........................] - ETA: 3s - loss: 10.5645 - mean\_absolute\_error: 2.4686 767/4840 [===>..........................] - ETA: 3s - loss: 10.5436 - mean\_absolute\_error: 2.4663 824/4840 [====>.........................] - ETA: 3s - loss: 10.5767 - mean\_absolute\_error: 2.4701 882/4840 [====>.........................] - ETA: 3s - loss: 10.5932 - mean\_absolute\_error: 2.4722 941/4840 [====>.........................] - ETA: 3s - loss: 10.5933 - mean\_absolute\_error: 2.47131001/4840 [=====>........................] - ETA: 3s - loss: 10.5930 - mean\_absolute\_error: 2.47101060/4840 [=====>........................] - ETA: 3s - loss: 10.5983 - mean\_absolute\_error: 2.47351120/4840 [=====>........................] - ETA: 3s - loss: 10.5805 - mean\_absolute\_error: 2.47031180/4840 [======>.......................] - ETA: 3s - loss: 10.6013 - mean\_absolute\_error: 2.47371241/4840 [======>.......................] - ETA: 3s - loss: 10.6114 - mean\_absolute\_error: 2.47441297/4840 [=======>......................] - ETA: 3s - loss: 10.5798 - mean\_absolute\_error: 2.47051357/4840 [=======>......................] - ETA: 2s - loss: 10.5968 - mean\_absolute\_error: 2.47081416/4840 [=======>......................] - ETA: 2s - loss: 10.5947 - mean\_absolute\_error: 2.47061476/4840 [========>.....................] - ETA: 2s - loss: 10.5675 - mean\_absolute\_error: 2.46721537/4840 [========>.....................] - ETA: 2s - loss: 10.5515 - mean\_absolute\_error: 2.46521596/4840 [========>.....................] - ETA: 2s - loss: 10.5492 - mean\_absolute\_error: 2.46551655/4840 [=========>....................] - ETA: 2s - loss: 10.5537 - mean\_absolute\_error: 2.46631717/4840 [=========>....................] - ETA: 2s - loss: 10.5609 - mean\_absolute\_error: 2.46731777/4840 [==========>...................] - ETA: 2s - loss: 10.5803 - mean\_absolute\_error: 2.47091837/4840 [==========>...................] - ETA: 2s - loss: 10.5940 - mean\_absolute\_error: 2.47251896/4840 [==========>...................] - ETA: 2s - loss: 10.6012 - mean\_absolute\_error: 2.47461958/4840 [===========>..................] - ETA: 2s - loss: 10.6198 - mean\_absolute\_error: 2.47702018/4840 [===========>..................] - ETA: 2s - loss: 10.6319 - mean\_absolute\_error: 2.47842076/4840 [===========>..................] - ETA: 2s - loss: 10.6338 - mean\_absolute\_error: 2.47852133/4840 [============>.................] - ETA: 2s - loss: 10.6550 - mean\_absolute\_error: 2.48092192/4840 [============>.................] - ETA: 2s - loss: 10.6704 - mean\_absolute\_error: 2.48242251/4840 [============>.................] - ETA: 2s - loss: 10.6743 - mean\_absolute\_error: 2.48282310/4840 [=============>................] - ETA: 2s - loss: 10.6819 - mean\_absolute\_error: 2.48332371/4840 [=============>................] - ETA: 2s - loss: 10.6905 - mean\_absolute\_error: 2.48512432/4840 [==============>...............] - ETA: 2s - loss: 10.6902 - mean\_absolute\_error: 2.48522488/4840 [==============>...............] - ETA: 2s - loss: 10.6999 - mean\_absolute\_error: 2.48642546/4840 [==============>...............] - ETA: 1s - loss: 10.7100 - mean\_absolute\_error: 2.48772602/4840 [===============>..............] - ETA: 1s - loss: 10.7199 - mean\_absolute\_error: 2.48882659/4840 [===============>..............] - ETA: 1s - loss: 10.7277 - mean\_absolute\_error: 2.48992716/4840 [===============>..............] - ETA: 1s - loss: 10.7220 - mean\_absolute\_error: 2.48962774/4840 [================>.............] - ETA: 1s - loss: 10.7284 - mean\_absolute\_error: 2.49082829/4840 [================>.............] - ETA: 1s - loss: 10.7327 - mean\_absolute\_error: 2.49112886/4840 [================>.............] - ETA: 1s - loss: 10.7459 - mean\_absolute\_error: 2.49242943/4840 [=================>............] - ETA: 1s - loss: 10.7397 - mean\_absolute\_error: 2.49153000/4840 [=================>............] - ETA: 1s - loss: 10.7370 - mean\_absolute\_error: 2.49093058/4840 [=================>............] - ETA: 1s - loss: 10.7352 - mean\_absolute\_error: 2.49023116/4840 [==================>...........] - ETA: 1s - loss: 10.7315 - mean\_absolute\_error: 2.48973173/4840 [==================>...........] - ETA: 1s - loss: 10.7201 - mean\_absolute\_error: 2.48813231/4840 [===================>..........] - ETA: 1s - loss: 10.7170 - mean\_absolute\_error: 2.48793290/4840 [===================>..........] - ETA: 1s - loss: 10.7180 - mean\_absolute\_error: 2.48773350/4840 [===================>..........] - ETA: 1s - loss: 10.7194 - mean\_absolute\_error: 2.48763410/4840 [====================>.........] - ETA: 1s - loss: 10.7164 - mean\_absolute\_error: 2.48743468/4840 [====================>.........] - ETA: 1s - loss: 10.7105 - mean\_absolute\_error: 2.48663528/4840 [====================>.........] - ETA: 1s - loss: 10.7120 - mean\_absolute\_error: 2.48673587/4840 [=====================>........] - ETA: 1s - loss: 10.7244 - mean\_absolute\_error: 2.48843645/4840 [=====================>........] - ETA: 1s - loss: 10.7183 - mean\_absolute\_error: 2.48763703/4840 [=====================>........] - ETA: 0s - loss: 10.7257 - mean\_absolute\_error: 2.48853761/4840 [======================>.......] - ETA: 0s - loss: 10.7248 - mean\_absolute\_error: 2.48893820/4840 [======================>.......] - ETA: 0s - loss: 10.7234 - mean\_absolute\_error: 2.48883880/4840 [=======================>......] - ETA: 0s - loss: 10.7197 - mean\_absolute\_error: 2.48843938/4840 [=======================>......] - ETA: 0s - loss: 10.7196 - mean\_absolute\_error: 2.48873998/4840 [=======================>......] - ETA: 0s - loss: 10.7259 - mean\_absolute\_error: 2.48944056/4840 [========================>.....] - ETA: 0s - loss: 10.7318 - mean\_absolute\_error: 2.48984114/4840 [========================>.....] - ETA: 0s - loss: 10.7421 - mean\_absolute\_error: 2.49134174/4840 [========================>.....] - ETA: 0s - loss: 10.7451 - mean\_absolute\_error: 2.49154234/4840 [=========================>....] - ETA: 0s - loss: 10.7468 - mean\_absolute\_error: 2.49164293/4840 [=========================>....] - ETA: 0s - loss: 10.7459 - mean\_absolute\_error: 2.49154352/4840 [=========================>....] - ETA: 0s - loss: 10.7443 - mean\_absolute\_error: 2.49134409/4840 [==========================>...] - ETA: 0s - loss: 10.7526 - mean\_absolute\_error: 2.49214466/4840 [==========================>...] - ETA: 0s - loss: 10.7579 - mean\_absolute\_error: 2.49334525/4840 [===========================>..] - ETA: 0s - loss: 10.7578 - mean\_absolute\_error: 2.49364585/4840 [===========================>..] - ETA: 0s - loss: 10.7621 - mean\_absolute\_error: 2.49424643/4840 [===========================>..] - ETA: 0s - loss: 10.7681 - mean\_absolute\_error: 2.49514702/4840 [============================>.] - ETA: 0s - loss: 10.7701 - mean\_absolute\_error: 2.49564762/4840 [============================>.] - ETA: 0s - loss: 10.7636 - mean\_absolute\_error: 2.49524820/4840 [============================>.] - ETA: 0s - loss: 10.7594 - mean\_absolute\_error: 2.49444840/4840 [==============================] - 4s 902us/step - loss: 10.7626 - mean\_absolute\_error: 2.4948 - val\_loss: 11.5956 - val\_mean\_absolute\_error: 2.5941  
Epoch 18/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.2596 - mean\_absolute\_error: 2.3386 61/4840 [..............................] - ETA: 4s - loss: 11.5876 - mean\_absolute\_error: 2.5853 120/4840 [..............................] - ETA: 4s - loss: 10.7194 - mean\_absolute\_error: 2.4867 179/4840 [>.............................] - ETA: 3s - loss: 10.6830 - mean\_absolute\_error: 2.4812 239/4840 [>.............................] - ETA: 3s - loss: 10.7363 - mean\_absolute\_error: 2.4899 299/4840 [>.............................] - ETA: 3s - loss: 10.7027 - mean\_absolute\_error: 2.4933 360/4840 [=>............................] - ETA: 3s - loss: 10.6967 - mean\_absolute\_error: 2.4953 419/4840 [=>............................] - ETA: 3s - loss: 10.6909 - mean\_absolute\_error: 2.4916 478/4840 [=>............................] - ETA: 3s - loss: 10.7685 - mean\_absolute\_error: 2.4983 537/4840 [==>...........................] - ETA: 3s - loss: 10.7570 - mean\_absolute\_error: 2.4953 598/4840 [==>...........................] - ETA: 3s - loss: 10.7099 - mean\_absolute\_error: 2.4870 658/4840 [===>..........................] - ETA: 3s - loss: 10.6873 - mean\_absolute\_error: 2.4833 717/4840 [===>..........................] - ETA: 3s - loss: 10.6747 - mean\_absolute\_error: 2.4820 776/4840 [===>..........................] - ETA: 3s - loss: 10.6546 - mean\_absolute\_error: 2.4779 836/4840 [====>.........................] - ETA: 3s - loss: 10.6609 - mean\_absolute\_error: 2.4815 894/4840 [====>.........................] - ETA: 3s - loss: 10.6805 - mean\_absolute\_error: 2.4843 954/4840 [====>.........................] - ETA: 3s - loss: 10.6667 - mean\_absolute\_error: 2.48351013/4840 [=====>........................] - ETA: 3s - loss: 10.6214 - mean\_absolute\_error: 2.47831073/4840 [=====>........................] - ETA: 3s - loss: 10.5839 - mean\_absolute\_error: 2.47431133/4840 [======>.......................] - ETA: 3s - loss: 10.5847 - mean\_absolute\_error: 2.47371193/4840 [======>.......................] - ETA: 3s - loss: 10.5735 - mean\_absolute\_error: 2.47191252/4840 [======>.......................] - ETA: 3s - loss: 10.5777 - mean\_absolute\_error: 2.47271305/4840 [=======>......................] - ETA: 3s - loss: 10.5598 - mean\_absolute\_error: 2.47071361/4840 [=======>......................] - ETA: 2s - loss: 10.5695 - mean\_absolute\_error: 2.47141421/4840 [=======>......................] - ETA: 2s - loss: 10.6061 - mean\_absolute\_error: 2.47511480/4840 [========>.....................] - ETA: 2s - loss: 10.5966 - mean\_absolute\_error: 2.47271541/4840 [========>.....................] - ETA: 2s - loss: 10.5837 - mean\_absolute\_error: 2.47081602/4840 [========>.....................] - ETA: 2s - loss: 10.6024 - mean\_absolute\_error: 2.47361659/4840 [=========>....................] - ETA: 2s - loss: 10.6124 - mean\_absolute\_error: 2.47531716/4840 [=========>....................] - ETA: 2s - loss: 10.6208 - mean\_absolute\_error: 2.47731775/4840 [==========>...................] - ETA: 2s - loss: 10.6315 - mean\_absolute\_error: 2.47921833/4840 [==========>...................] - ETA: 2s - loss: 10.6296 - mean\_absolute\_error: 2.47881894/4840 [==========>...................] - ETA: 2s - loss: 10.6307 - mean\_absolute\_error: 2.47981953/4840 [===========>..................] - ETA: 2s - loss: 10.6376 - mean\_absolute\_error: 2.48082012/4840 [===========>..................] - ETA: 2s - loss: 10.6408 - mean\_absolute\_error: 2.48082070/4840 [===========>..................] - ETA: 2s - loss: 10.6567 - mean\_absolute\_error: 2.48252130/4840 [============>.................] - ETA: 2s - loss: 10.6575 - mean\_absolute\_error: 2.48242190/4840 [============>.................] - ETA: 2s - loss: 10.6526 - mean\_absolute\_error: 2.48182249/4840 [============>.................] - ETA: 2s - loss: 10.6585 - mean\_absolute\_error: 2.48232307/4840 [=============>................] - ETA: 2s - loss: 10.6571 - mean\_absolute\_error: 2.48182365/4840 [=============>................] - ETA: 2s - loss: 10.6585 - mean\_absolute\_error: 2.48182424/4840 [==============>...............] - ETA: 2s - loss: 10.6543 - mean\_absolute\_error: 2.48122484/4840 [==============>...............] - ETA: 2s - loss: 10.6605 - mean\_absolute\_error: 2.48202537/4840 [==============>...............] - ETA: 1s - loss: 10.6522 - mean\_absolute\_error: 2.48102589/4840 [===============>..............] - ETA: 1s - loss: 10.6677 - mean\_absolute\_error: 2.48262639/4840 [===============>..............] - ETA: 1s - loss: 10.6689 - mean\_absolute\_error: 2.48282689/4840 [===============>..............] - ETA: 1s - loss: 10.6646 - mean\_absolute\_error: 2.48272737/4840 [===============>..............] - ETA: 1s - loss: 10.6638 - mean\_absolute\_error: 2.48252786/4840 [================>.............] - ETA: 1s - loss: 10.6614 - mean\_absolute\_error: 2.48242842/4840 [================>.............] - ETA: 1s - loss: 10.6696 - mean\_absolute\_error: 2.48432898/4840 [================>.............] - ETA: 1s - loss: 10.6710 - mean\_absolute\_error: 2.48452956/4840 [=================>............] - ETA: 1s - loss: 10.6679 - mean\_absolute\_error: 2.48433013/4840 [=================>............] - ETA: 1s - loss: 10.6621 - mean\_absolute\_error: 2.48353071/4840 [==================>...........] - ETA: 1s - loss: 10.6692 - mean\_absolute\_error: 2.48433128/4840 [==================>...........] - ETA: 1s - loss: 10.6794 - mean\_absolute\_error: 2.48603184/4840 [==================>...........] - ETA: 1s - loss: 10.6728 - mean\_absolute\_error: 2.48493241/4840 [===================>..........] - ETA: 1s - loss: 10.6702 - mean\_absolute\_error: 2.48473299/4840 [===================>..........] - ETA: 1s - loss: 10.6754 - mean\_absolute\_error: 2.48563358/4840 [===================>..........] - ETA: 1s - loss: 10.6847 - mean\_absolute\_error: 2.48653417/4840 [====================>.........] - ETA: 1s - loss: 10.6926 - mean\_absolute\_error: 2.48773476/4840 [====================>.........] - ETA: 1s - loss: 10.6979 - mean\_absolute\_error: 2.48823534/4840 [====================>.........] - ETA: 1s - loss: 10.6995 - mean\_absolute\_error: 2.48863593/4840 [=====================>........] - ETA: 1s - loss: 10.7043 - mean\_absolute\_error: 2.48953651/4840 [=====================>........] - ETA: 1s - loss: 10.7076 - mean\_absolute\_error: 2.48923709/4840 [=====================>........] - ETA: 0s - loss: 10.7082 - mean\_absolute\_error: 2.48923767/4840 [======================>.......] - ETA: 0s - loss: 10.7120 - mean\_absolute\_error: 2.48963827/4840 [======================>.......] - ETA: 0s - loss: 10.7172 - mean\_absolute\_error: 2.49003886/4840 [=======================>......] - ETA: 0s - loss: 10.7179 - mean\_absolute\_error: 2.48973943/4840 [=======================>......] - ETA: 0s - loss: 10.7171 - mean\_absolute\_error: 2.48983999/4840 [=======================>......] - ETA: 0s - loss: 10.7115 - mean\_absolute\_error: 2.48924057/4840 [========================>.....] - ETA: 0s - loss: 10.7166 - mean\_absolute\_error: 2.49004115/4840 [========================>.....] - ETA: 0s - loss: 10.7186 - mean\_absolute\_error: 2.49044174/4840 [========================>.....] - ETA: 0s - loss: 10.7108 - mean\_absolute\_error: 2.48974234/4840 [=========================>....] - ETA: 0s - loss: 10.7201 - mean\_absolute\_error: 2.49084291/4840 [=========================>....] - ETA: 0s - loss: 10.7201 - mean\_absolute\_error: 2.49094349/4840 [=========================>....] - ETA: 0s - loss: 10.7139 - mean\_absolute\_error: 2.49024407/4840 [==========================>...] - ETA: 0s - loss: 10.7089 - mean\_absolute\_error: 2.48964465/4840 [==========================>...] - ETA: 0s - loss: 10.7091 - mean\_absolute\_error: 2.48984523/4840 [===========================>..] - ETA: 0s - loss: 10.7060 - mean\_absolute\_error: 2.48974583/4840 [===========================>..] - ETA: 0s - loss: 10.7060 - mean\_absolute\_error: 2.48994642/4840 [===========================>..] - ETA: 0s - loss: 10.7058 - mean\_absolute\_error: 2.49004700/4840 [============================>.] - ETA: 0s - loss: 10.7097 - mean\_absolute\_error: 2.49064757/4840 [============================>.] - ETA: 0s - loss: 10.7091 - mean\_absolute\_error: 2.49054813/4840 [============================>.] - ETA: 0s - loss: 10.7070 - mean\_absolute\_error: 2.49034840/4840 [==============================] - 4s 911us/step - loss: 10.7072 - mean\_absolute\_error: 2.4903 - val\_loss: 11.5590 - val\_mean\_absolute\_error: 2.5908  
Epoch 19/100  
 1/4840 [..............................] - ETA: 4s - loss: 17.3222 - mean\_absolute\_error: 3.4312 59/4840 [..............................] - ETA: 4s - loss: 11.2695 - mean\_absolute\_error: 2.5685 119/4840 [..............................] - ETA: 4s - loss: 11.0708 - mean\_absolute\_error: 2.5504 179/4840 [>.............................] - ETA: 3s - loss: 10.8297 - mean\_absolute\_error: 2.5064 240/4840 [>.............................] - ETA: 3s - loss: 10.5790 - mean\_absolute\_error: 2.4763 300/4840 [>.............................] - ETA: 3s - loss: 10.5295 - mean\_absolute\_error: 2.4746 358/4840 [=>............................] - ETA: 3s - loss: 10.4994 - mean\_absolute\_error: 2.4639 414/4840 [=>............................] - ETA: 3s - loss: 10.4807 - mean\_absolute\_error: 2.4616 474/4840 [=>............................] - ETA: 3s - loss: 10.5718 - mean\_absolute\_error: 2.4731 533/4840 [==>...........................] - ETA: 3s - loss: 10.5275 - mean\_absolute\_error: 2.4672 590/4840 [==>...........................] - ETA: 3s - loss: 10.5027 - mean\_absolute\_error: 2.4628 650/4840 [===>..........................] - ETA: 3s - loss: 10.5394 - mean\_absolute\_error: 2.4673 712/4840 [===>..........................] - ETA: 3s - loss: 10.5626 - mean\_absolute\_error: 2.4708 771/4840 [===>..........................] - ETA: 3s - loss: 10.4920 - mean\_absolute\_error: 2.4618 832/4840 [====>.........................] - ETA: 3s - loss: 10.5032 - mean\_absolute\_error: 2.4630 891/4840 [====>.........................] - ETA: 3s - loss: 10.5329 - mean\_absolute\_error: 2.4665 951/4840 [====>.........................] - ETA: 3s - loss: 10.5511 - mean\_absolute\_error: 2.46891010/4840 [=====>........................] - ETA: 3s - loss: 10.5608 - mean\_absolute\_error: 2.47171070/4840 [=====>........................] - ETA: 3s - loss: 10.5539 - mean\_absolute\_error: 2.47021131/4840 [======>.......................] - ETA: 3s - loss: 10.5531 - mean\_absolute\_error: 2.46911190/4840 [======>.......................] - ETA: 3s - loss: 10.5599 - mean\_absolute\_error: 2.47051249/4840 [======>.......................] - ETA: 3s - loss: 10.5587 - mean\_absolute\_error: 2.46981307/4840 [=======>......................] - ETA: 2s - loss: 10.5365 - mean\_absolute\_error: 2.46711367/4840 [=======>......................] - ETA: 2s - loss: 10.5273 - mean\_absolute\_error: 2.46641427/4840 [=======>......................] - ETA: 2s - loss: 10.5141 - mean\_absolute\_error: 2.46441486/4840 [========>.....................] - ETA: 2s - loss: 10.4925 - mean\_absolute\_error: 2.46251543/4840 [========>.....................] - ETA: 2s - loss: 10.4917 - mean\_absolute\_error: 2.46221601/4840 [========>.....................] - ETA: 2s - loss: 10.4961 - mean\_absolute\_error: 2.46361659/4840 [=========>....................] - ETA: 2s - loss: 10.5088 - mean\_absolute\_error: 2.46511718/4840 [=========>....................] - ETA: 2s - loss: 10.5465 - mean\_absolute\_error: 2.46991778/4840 [==========>...................] - ETA: 2s - loss: 10.5708 - mean\_absolute\_error: 2.47171839/4840 [==========>...................] - ETA: 2s - loss: 10.5568 - mean\_absolute\_error: 2.46921899/4840 [==========>...................] - ETA: 2s - loss: 10.5843 - mean\_absolute\_error: 2.47291958/4840 [===========>..................] - ETA: 2s - loss: 10.5945 - mean\_absolute\_error: 2.47442017/4840 [===========>..................] - ETA: 2s - loss: 10.6166 - mean\_absolute\_error: 2.47762078/4840 [===========>..................] - ETA: 2s - loss: 10.6259 - mean\_absolute\_error: 2.47862135/4840 [============>.................] - ETA: 2s - loss: 10.6107 - mean\_absolute\_error: 2.47682194/4840 [============>.................] - ETA: 2s - loss: 10.6076 - mean\_absolute\_error: 2.47632254/4840 [============>.................] - ETA: 2s - loss: 10.6108 - mean\_absolute\_error: 2.47672314/4840 [=============>................] - ETA: 2s - loss: 10.6063 - mean\_absolute\_error: 2.47632373/4840 [=============>................] - ETA: 2s - loss: 10.6111 - mean\_absolute\_error: 2.47722432/4840 [==============>...............] - ETA: 2s - loss: 10.6131 - mean\_absolute\_error: 2.47762492/4840 [==============>...............] - ETA: 1s - loss: 10.6215 - mean\_absolute\_error: 2.47842552/4840 [==============>...............] - ETA: 1s - loss: 10.6176 - mean\_absolute\_error: 2.47782612/4840 [===============>..............] - ETA: 1s - loss: 10.6263 - mean\_absolute\_error: 2.47892671/4840 [===============>..............] - ETA: 1s - loss: 10.6246 - mean\_absolute\_error: 2.47892728/4840 [===============>..............] - ETA: 1s - loss: 10.6164 - mean\_absolute\_error: 2.47742787/4840 [================>.............] - ETA: 1s - loss: 10.6200 - mean\_absolute\_error: 2.47802845/4840 [================>.............] - ETA: 1s - loss: 10.6257 - mean\_absolute\_error: 2.47852905/4840 [=================>............] - ETA: 1s - loss: 10.6334 - mean\_absolute\_error: 2.47962965/4840 [=================>............] - ETA: 1s - loss: 10.6140 - mean\_absolute\_error: 2.47703026/4840 [=================>............] - ETA: 1s - loss: 10.6166 - mean\_absolute\_error: 2.47743084/4840 [==================>...........] - ETA: 1s - loss: 10.6250 - mean\_absolute\_error: 2.47853144/4840 [==================>...........] - ETA: 1s - loss: 10.6357 - mean\_absolute\_error: 2.48003203/4840 [==================>...........] - ETA: 1s - loss: 10.6345 - mean\_absolute\_error: 2.47973263/4840 [===================>..........] - ETA: 1s - loss: 10.6281 - mean\_absolute\_error: 2.47903320/4840 [===================>..........] - ETA: 1s - loss: 10.6258 - mean\_absolute\_error: 2.47923379/4840 [===================>..........] - ETA: 1s - loss: 10.6291 - mean\_absolute\_error: 2.47953439/4840 [====================>.........] - ETA: 1s - loss: 10.6306 - mean\_absolute\_error: 2.47993498/4840 [====================>.........] - ETA: 1s - loss: 10.6344 - mean\_absolute\_error: 2.48043555/4840 [=====================>........] - ETA: 1s - loss: 10.6350 - mean\_absolute\_error: 2.48053614/4840 [=====================>........] - ETA: 1s - loss: 10.6285 - mean\_absolute\_error: 2.47933673/4840 [=====================>........] - ETA: 0s - loss: 10.6366 - mean\_absolute\_error: 2.48033732/4840 [======================>.......] - ETA: 0s - loss: 10.6418 - mean\_absolute\_error: 2.48083792/4840 [======================>.......] - ETA: 0s - loss: 10.6430 - mean\_absolute\_error: 2.48113853/4840 [======================>.......] - ETA: 0s - loss: 10.6447 - mean\_absolute\_error: 2.48143910/4840 [=======================>......] - ETA: 0s - loss: 10.6401 - mean\_absolute\_error: 2.48063968/4840 [=======================>......] - ETA: 0s - loss: 10.6426 - mean\_absolute\_error: 2.48134026/4840 [=======================>......] - ETA: 0s - loss: 10.6493 - mean\_absolute\_error: 2.48254085/4840 [========================>.....] - ETA: 0s - loss: 10.6506 - mean\_absolute\_error: 2.48284143/4840 [========================>.....] - ETA: 0s - loss: 10.6466 - mean\_absolute\_error: 2.48244203/4840 [=========================>....] - ETA: 0s - loss: 10.6460 - mean\_absolute\_error: 2.48254263/4840 [=========================>....] - ETA: 0s - loss: 10.6474 - mean\_absolute\_error: 2.48254322/4840 [=========================>....] - ETA: 0s - loss: 10.6485 - mean\_absolute\_error: 2.48264381/4840 [==========================>...] - ETA: 0s - loss: 10.6525 - mean\_absolute\_error: 2.48314441/4840 [==========================>...] - ETA: 0s - loss: 10.6579 - mean\_absolute\_error: 2.48374499/4840 [==========================>...] - ETA: 0s - loss: 10.6605 - mean\_absolute\_error: 2.48434559/4840 [===========================>..] - ETA: 0s - loss: 10.6612 - mean\_absolute\_error: 2.48444618/4840 [===========================>..] - ETA: 0s - loss: 10.6669 - mean\_absolute\_error: 2.48494679/4840 [============================>.] - ETA: 0s - loss: 10.6668 - mean\_absolute\_error: 2.48544737/4840 [============================>.] - ETA: 0s - loss: 10.6624 - mean\_absolute\_error: 2.48494792/4840 [============================>.] - ETA: 0s - loss: 10.6614 - mean\_absolute\_error: 2.48464840/4840 [==============================] - 4s 895us/step - loss: 10.6653 - mean\_absolute\_error: 2.4851 - val\_loss: 11.5333 - val\_mean\_absolute\_error: 2.5886  
Epoch 20/100  
 1/4840 [..............................] - ETA: 4s - loss: 15.0519 - mean\_absolute\_error: 3.0218 60/4840 [..............................] - ETA: 4s - loss: 10.6372 - mean\_absolute\_error: 2.5060 120/4840 [..............................] - ETA: 4s - loss: 10.7041 - mean\_absolute\_error: 2.5066 181/4840 [>.............................] - ETA: 3s - loss: 10.5298 - mean\_absolute\_error: 2.4861 241/4840 [>.............................] - ETA: 3s - loss: 10.4887 - mean\_absolute\_error: 2.4767 300/4840 [>.............................] - ETA: 3s - loss: 10.5257 - mean\_absolute\_error: 2.4787 360/4840 [=>............................] - ETA: 3s - loss: 10.4948 - mean\_absolute\_error: 2.4750 420/4840 [=>............................] - ETA: 3s - loss: 10.6044 - mean\_absolute\_error: 2.4892 481/4840 [=>............................] - ETA: 3s - loss: 10.6098 - mean\_absolute\_error: 2.4868 541/4840 [==>...........................] - ETA: 3s - loss: 10.6445 - mean\_absolute\_error: 2.4883 598/4840 [==>...........................] - ETA: 3s - loss: 10.5681 - mean\_absolute\_error: 2.4805 655/4840 [===>..........................] - ETA: 3s - loss: 10.5623 - mean\_absolute\_error: 2.4806 714/4840 [===>..........................] - ETA: 3s - loss: 10.5621 - mean\_absolute\_error: 2.4787 773/4840 [===>..........................] - ETA: 3s - loss: 10.5673 - mean\_absolute\_error: 2.4803 830/4840 [====>.........................] - ETA: 3s - loss: 10.5798 - mean\_absolute\_error: 2.4801 889/4840 [====>.........................] - ETA: 3s - loss: 10.5659 - mean\_absolute\_error: 2.4779 947/4840 [====>.........................] - ETA: 3s - loss: 10.5496 - mean\_absolute\_error: 2.47531008/4840 [=====>........................] - ETA: 3s - loss: 10.5732 - mean\_absolute\_error: 2.47761068/4840 [=====>........................] - ETA: 3s - loss: 10.6005 - mean\_absolute\_error: 2.48041128/4840 [=====>........................] - ETA: 3s - loss: 10.5538 - mean\_absolute\_error: 2.47571185/4840 [======>.......................] - ETA: 3s - loss: 10.5679 - mean\_absolute\_error: 2.47621244/4840 [======>.......................] - ETA: 3s - loss: 10.5817 - mean\_absolute\_error: 2.47831302/4840 [=======>......................] - ETA: 3s - loss: 10.5662 - mean\_absolute\_error: 2.47641358/4840 [=======>......................] - ETA: 2s - loss: 10.5354 - mean\_absolute\_error: 2.47251415/4840 [=======>......................] - ETA: 2s - loss: 10.5612 - mean\_absolute\_error: 2.47601473/4840 [========>.....................] - ETA: 2s - loss: 10.5514 - mean\_absolute\_error: 2.47401533/4840 [========>.....................] - ETA: 2s - loss: 10.5658 - mean\_absolute\_error: 2.47561594/4840 [========>.....................] - ETA: 2s - loss: 10.5824 - mean\_absolute\_error: 2.47731653/4840 [=========>....................] - ETA: 2s - loss: 10.5680 - mean\_absolute\_error: 2.47651713/4840 [=========>....................] - ETA: 2s - loss: 10.5617 - mean\_absolute\_error: 2.47511771/4840 [=========>....................] - ETA: 2s - loss: 10.5646 - mean\_absolute\_error: 2.47591831/4840 [==========>...................] - ETA: 2s - loss: 10.5849 - mean\_absolute\_error: 2.47791891/4840 [==========>...................] - ETA: 2s - loss: 10.5827 - mean\_absolute\_error: 2.47791951/4840 [===========>..................] - ETA: 2s - loss: 10.5833 - mean\_absolute\_error: 2.47782010/4840 [===========>..................] - ETA: 2s - loss: 10.5725 - mean\_absolute\_error: 2.47602066/4840 [===========>..................] - ETA: 2s - loss: 10.5850 - mean\_absolute\_error: 2.47742120/4840 [============>.................] - ETA: 2s - loss: 10.5725 - mean\_absolute\_error: 2.47592173/4840 [============>.................] - ETA: 2s - loss: 10.5861 - mean\_absolute\_error: 2.47802226/4840 [============>.................] - ETA: 2s - loss: 10.5865 - mean\_absolute\_error: 2.47762278/4840 [=============>................] - ETA: 2s - loss: 10.5995 - mean\_absolute\_error: 2.47942326/4840 [=============>................] - ETA: 2s - loss: 10.5971 - mean\_absolute\_error: 2.47832382/4840 [=============>................] - ETA: 2s - loss: 10.6050 - mean\_absolute\_error: 2.47882439/4840 [==============>...............] - ETA: 2s - loss: 10.6084 - mean\_absolute\_error: 2.47902497/4840 [==============>...............] - ETA: 2s - loss: 10.6068 - mean\_absolute\_error: 2.47922555/4840 [==============>...............] - ETA: 1s - loss: 10.6026 - mean\_absolute\_error: 2.47842613/4840 [===============>..............] - ETA: 1s - loss: 10.6013 - mean\_absolute\_error: 2.47832670/4840 [===============>..............] - ETA: 1s - loss: 10.5944 - mean\_absolute\_error: 2.47712728/4840 [===============>..............] - ETA: 1s - loss: 10.5833 - mean\_absolute\_error: 2.47602786/4840 [================>.............] - ETA: 1s - loss: 10.5761 - mean\_absolute\_error: 2.47482845/4840 [================>.............] - ETA: 1s - loss: 10.5685 - mean\_absolute\_error: 2.47432903/4840 [================>.............] - ETA: 1s - loss: 10.5562 - mean\_absolute\_error: 2.47242961/4840 [=================>............] - ETA: 1s - loss: 10.5556 - mean\_absolute\_error: 2.47163020/4840 [=================>............] - ETA: 1s - loss: 10.5643 - mean\_absolute\_error: 2.47303077/4840 [==================>...........] - ETA: 1s - loss: 10.5701 - mean\_absolute\_error: 2.47393135/4840 [==================>...........] - ETA: 1s - loss: 10.5741 - mean\_absolute\_error: 2.47433193/4840 [==================>...........] - ETA: 1s - loss: 10.5873 - mean\_absolute\_error: 2.47623251/4840 [===================>..........] - ETA: 1s - loss: 10.6039 - mean\_absolute\_error: 2.47813311/4840 [===================>..........] - ETA: 1s - loss: 10.6135 - mean\_absolute\_error: 2.47913370/4840 [===================>..........] - ETA: 1s - loss: 10.6187 - mean\_absolute\_error: 2.48023427/4840 [====================>.........] - ETA: 1s - loss: 10.6164 - mean\_absolute\_error: 2.48013485/4840 [====================>.........] - ETA: 1s - loss: 10.6145 - mean\_absolute\_error: 2.48003544/4840 [====================>.........] - ETA: 1s - loss: 10.6112 - mean\_absolute\_error: 2.47953603/4840 [=====================>........] - ETA: 1s - loss: 10.5974 - mean\_absolute\_error: 2.47763661/4840 [=====================>........] - ETA: 1s - loss: 10.5919 - mean\_absolute\_error: 2.47703721/4840 [======================>.......] - ETA: 0s - loss: 10.5915 - mean\_absolute\_error: 2.47733781/4840 [======================>.......] - ETA: 0s - loss: 10.5872 - mean\_absolute\_error: 2.47643839/4840 [======================>.......] - ETA: 0s - loss: 10.5887 - mean\_absolute\_error: 2.47633898/4840 [=======================>......] - ETA: 0s - loss: 10.5947 - mean\_absolute\_error: 2.47683958/4840 [=======================>......] - ETA: 0s - loss: 10.6073 - mean\_absolute\_error: 2.47854017/4840 [=======================>......] - ETA: 0s - loss: 10.6085 - mean\_absolute\_error: 2.47904072/4840 [========================>.....] - ETA: 0s - loss: 10.6048 - mean\_absolute\_error: 2.47844128/4840 [========================>.....] - ETA: 0s - loss: 10.6017 - mean\_absolute\_error: 2.47794182/4840 [========================>.....] - ETA: 0s - loss: 10.6067 - mean\_absolute\_error: 2.47844230/4840 [=========================>....] - ETA: 0s - loss: 10.6074 - mean\_absolute\_error: 2.47874286/4840 [=========================>....] - ETA: 0s - loss: 10.6128 - mean\_absolute\_error: 2.47954342/4840 [=========================>....] - ETA: 0s - loss: 10.6097 - mean\_absolute\_error: 2.47904399/4840 [==========================>...] - ETA: 0s - loss: 10.6096 - mean\_absolute\_error: 2.47904457/4840 [==========================>...] - ETA: 0s - loss: 10.6031 - mean\_absolute\_error: 2.47804515/4840 [==========================>...] - ETA: 0s - loss: 10.6130 - mean\_absolute\_error: 2.47924572/4840 [===========================>..] - ETA: 0s - loss: 10.6181 - mean\_absolute\_error: 2.48014629/4840 [===========================>..] - ETA: 0s - loss: 10.6233 - mean\_absolute\_error: 2.48114687/4840 [============================>.] - ETA: 0s - loss: 10.6289 - mean\_absolute\_error: 2.48184745/4840 [============================>.] - ETA: 0s - loss: 10.6309 - mean\_absolute\_error: 2.48234803/4840 [============================>.] - ETA: 0s - loss: 10.6337 - mean\_absolute\_error: 2.48284840/4840 [==============================] - 4s 914us/step - loss: 10.6322 - mean\_absolute\_error: 2.4824 - val\_loss: 11.5113 - val\_mean\_absolute\_error: 2.5863  
Epoch 21/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.2936 - mean\_absolute\_error: 2.7025 61/4840 [..............................] - ETA: 4s - loss: 10.3749 - mean\_absolute\_error: 2.4572 120/4840 [..............................] - ETA: 4s - loss: 10.7273 - mean\_absolute\_error: 2.5037 178/4840 [>.............................] - ETA: 3s - loss: 10.5614 - mean\_absolute\_error: 2.4783 235/4840 [>.............................] - ETA: 3s - loss: 10.5893 - mean\_absolute\_error: 2.4812 292/4840 [>.............................] - ETA: 3s - loss: 10.6894 - mean\_absolute\_error: 2.4924 349/4840 [=>............................] - ETA: 3s - loss: 10.6902 - mean\_absolute\_error: 2.4876 408/4840 [=>............................] - ETA: 3s - loss: 10.7070 - mean\_absolute\_error: 2.4896 467/4840 [=>............................] - ETA: 3s - loss: 10.6735 - mean\_absolute\_error: 2.4856 526/4840 [==>...........................] - ETA: 3s - loss: 10.6773 - mean\_absolute\_error: 2.4855 584/4840 [==>...........................] - ETA: 3s - loss: 10.5899 - mean\_absolute\_error: 2.4772 641/4840 [==>...........................] - ETA: 3s - loss: 10.5745 - mean\_absolute\_error: 2.4754 695/4840 [===>..........................] - ETA: 3s - loss: 10.5553 - mean\_absolute\_error: 2.4741 752/4840 [===>..........................] - ETA: 3s - loss: 10.6406 - mean\_absolute\_error: 2.4856 809/4840 [====>.........................] - ETA: 3s - loss: 10.6392 - mean\_absolute\_error: 2.4854 867/4840 [====>.........................] - ETA: 3s - loss: 10.6118 - mean\_absolute\_error: 2.4807 925/4840 [====>.........................] - ETA: 3s - loss: 10.6080 - mean\_absolute\_error: 2.4800 982/4840 [=====>........................] - ETA: 3s - loss: 10.5740 - mean\_absolute\_error: 2.47601041/4840 [=====>........................] - ETA: 3s - loss: 10.5858 - mean\_absolute\_error: 2.47671098/4840 [=====>........................] - ETA: 3s - loss: 10.5887 - mean\_absolute\_error: 2.47751158/4840 [======>.......................] - ETA: 3s - loss: 10.6049 - mean\_absolute\_error: 2.48011216/4840 [======>.......................] - ETA: 3s - loss: 10.6373 - mean\_absolute\_error: 2.48611275/4840 [======>.......................] - ETA: 3s - loss: 10.6108 - mean\_absolute\_error: 2.48371333/4840 [=======>......................] - ETA: 3s - loss: 10.6061 - mean\_absolute\_error: 2.48341391/4840 [=======>......................] - ETA: 2s - loss: 10.6459 - mean\_absolute\_error: 2.48791449/4840 [=======>......................] - ETA: 2s - loss: 10.6219 - mean\_absolute\_error: 2.48311507/4840 [========>.....................] - ETA: 2s - loss: 10.6373 - mean\_absolute\_error: 2.48481566/4840 [========>.....................] - ETA: 2s - loss: 10.6285 - mean\_absolute\_error: 2.48361625/4840 [=========>....................] - ETA: 2s - loss: 10.6112 - mean\_absolute\_error: 2.48071682/4840 [=========>....................] - ETA: 2s - loss: 10.6061 - mean\_absolute\_error: 2.47971741/4840 [=========>....................] - ETA: 2s - loss: 10.6046 - mean\_absolute\_error: 2.47881798/4840 [==========>...................] - ETA: 2s - loss: 10.6107 - mean\_absolute\_error: 2.48061856/4840 [==========>...................] - ETA: 2s - loss: 10.6153 - mean\_absolute\_error: 2.48101914/4840 [==========>...................] - ETA: 2s - loss: 10.5906 - mean\_absolute\_error: 2.47731971/4840 [===========>..................] - ETA: 2s - loss: 10.5807 - mean\_absolute\_error: 2.47582029/4840 [===========>..................] - ETA: 2s - loss: 10.5750 - mean\_absolute\_error: 2.47462088/4840 [===========>..................] - ETA: 2s - loss: 10.5880 - mean\_absolute\_error: 2.47612147/4840 [============>.................] - ETA: 2s - loss: 10.5901 - mean\_absolute\_error: 2.47672207/4840 [============>.................] - ETA: 2s - loss: 10.5766 - mean\_absolute\_error: 2.47532265/4840 [=============>................] - ETA: 2s - loss: 10.5814 - mean\_absolute\_error: 2.47532323/4840 [=============>................] - ETA: 2s - loss: 10.5812 - mean\_absolute\_error: 2.47492382/4840 [=============>................] - ETA: 2s - loss: 10.5902 - mean\_absolute\_error: 2.47582442/4840 [==============>...............] - ETA: 2s - loss: 10.5847 - mean\_absolute\_error: 2.47482501/4840 [==============>...............] - ETA: 2s - loss: 10.5832 - mean\_absolute\_error: 2.47462559/4840 [==============>...............] - ETA: 1s - loss: 10.5821 - mean\_absolute\_error: 2.47512616/4840 [===============>..............] - ETA: 1s - loss: 10.5748 - mean\_absolute\_error: 2.47402674/4840 [===============>..............] - ETA: 1s - loss: 10.5826 - mean\_absolute\_error: 2.47502731/4840 [===============>..............] - ETA: 1s - loss: 10.5824 - mean\_absolute\_error: 2.47472789/4840 [================>.............] - ETA: 1s - loss: 10.5814 - mean\_absolute\_error: 2.47462848/4840 [================>.............] - ETA: 1s - loss: 10.5877 - mean\_absolute\_error: 2.47532908/4840 [=================>............] - ETA: 1s - loss: 10.5896 - mean\_absolute\_error: 2.47562965/4840 [=================>............] - ETA: 1s - loss: 10.5918 - mean\_absolute\_error: 2.47593023/4840 [=================>............] - ETA: 1s - loss: 10.5884 - mean\_absolute\_error: 2.47573081/4840 [==================>...........] - ETA: 1s - loss: 10.6005 - mean\_absolute\_error: 2.47673139/4840 [==================>...........] - ETA: 1s - loss: 10.6081 - mean\_absolute\_error: 2.47773197/4840 [==================>...........] - ETA: 1s - loss: 10.6063 - mean\_absolute\_error: 2.47773257/4840 [===================>..........] - ETA: 1s - loss: 10.6063 - mean\_absolute\_error: 2.47773317/4840 [===================>..........] - ETA: 1s - loss: 10.5937 - mean\_absolute\_error: 2.47623377/4840 [===================>..........] - ETA: 1s - loss: 10.5907 - mean\_absolute\_error: 2.47633436/4840 [====================>.........] - ETA: 1s - loss: 10.5933 - mean\_absolute\_error: 2.47683494/4840 [====================>.........] - ETA: 1s - loss: 10.5980 - mean\_absolute\_error: 2.47723553/4840 [=====================>........] - ETA: 1s - loss: 10.5969 - mean\_absolute\_error: 2.47723612/4840 [=====================>........] - ETA: 1s - loss: 10.5925 - mean\_absolute\_error: 2.47683670/4840 [=====================>........] - ETA: 1s - loss: 10.5945 - mean\_absolute\_error: 2.47763729/4840 [======================>.......] - ETA: 0s - loss: 10.5959 - mean\_absolute\_error: 2.47783788/4840 [======================>.......] - ETA: 0s - loss: 10.5958 - mean\_absolute\_error: 2.47773848/4840 [======================>.......] - ETA: 0s - loss: 10.6017 - mean\_absolute\_error: 2.47803906/4840 [=======================>......] - ETA: 0s - loss: 10.6014 - mean\_absolute\_error: 2.47823967/4840 [=======================>......] - ETA: 0s - loss: 10.6086 - mean\_absolute\_error: 2.47924027/4840 [=======================>......] - ETA: 0s - loss: 10.6052 - mean\_absolute\_error: 2.47894086/4840 [========================>.....] - ETA: 0s - loss: 10.6033 - mean\_absolute\_error: 2.47874144/4840 [========================>.....] - ETA: 0s - loss: 10.6020 - mean\_absolute\_error: 2.47844204/4840 [=========================>....] - ETA: 0s - loss: 10.5977 - mean\_absolute\_error: 2.47784262/4840 [=========================>....] - ETA: 0s - loss: 10.5925 - mean\_absolute\_error: 2.47704321/4840 [=========================>....] - ETA: 0s - loss: 10.5929 - mean\_absolute\_error: 2.47694380/4840 [==========================>...] - ETA: 0s - loss: 10.6024 - mean\_absolute\_error: 2.47784440/4840 [==========================>...] - ETA: 0s - loss: 10.6045 - mean\_absolute\_error: 2.47814500/4840 [==========================>...] - ETA: 0s - loss: 10.6006 - mean\_absolute\_error: 2.47754559/4840 [===========================>..] - ETA: 0s - loss: 10.6025 - mean\_absolute\_error: 2.47784619/4840 [===========================>..] - ETA: 0s - loss: 10.6038 - mean\_absolute\_error: 2.47774680/4840 [============================>.] - ETA: 0s - loss: 10.6041 - mean\_absolute\_error: 2.47804739/4840 [============================>.] - ETA: 0s - loss: 10.6090 - mean\_absolute\_error: 2.47904797/4840 [============================>.] - ETA: 0s - loss: 10.6054 - mean\_absolute\_error: 2.47854840/4840 [==============================] - 4s 904us/step - loss: 10.6058 - mean\_absolute\_error: 2.4788 - val\_loss: 11.4946 - val\_mean\_absolute\_error: 2.5852  
Epoch 22/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.7561 - mean\_absolute\_error: 2.5689 61/4840 [..............................] - ETA: 3s - loss: 10.5599 - mean\_absolute\_error: 2.4697 121/4840 [..............................] - ETA: 3s - loss: 10.5963 - mean\_absolute\_error: 2.4846 179/4840 [>.............................] - ETA: 3s - loss: 10.5838 - mean\_absolute\_error: 2.4832 237/4840 [>.............................] - ETA: 3s - loss: 10.6721 - mean\_absolute\_error: 2.4903 295/4840 [>.............................] - ETA: 3s - loss: 10.6842 - mean\_absolute\_error: 2.4910 355/4840 [=>............................] - ETA: 3s - loss: 10.6557 - mean\_absolute\_error: 2.4878 413/4840 [=>............................] - ETA: 3s - loss: 10.7155 - mean\_absolute\_error: 2.4949 473/4840 [=>............................] - ETA: 3s - loss: 10.6904 - mean\_absolute\_error: 2.4952 532/4840 [==>...........................] - ETA: 3s - loss: 10.7552 - mean\_absolute\_error: 2.5005 592/4840 [==>...........................] - ETA: 3s - loss: 10.7493 - mean\_absolute\_error: 2.4996 653/4840 [===>..........................] - ETA: 3s - loss: 10.7476 - mean\_absolute\_error: 2.5004 714/4840 [===>..........................] - ETA: 3s - loss: 10.6997 - mean\_absolute\_error: 2.4947 774/4840 [===>..........................] - ETA: 3s - loss: 10.7341 - mean\_absolute\_error: 2.4997 833/4840 [====>.........................] - ETA: 3s - loss: 10.7021 - mean\_absolute\_error: 2.4959 894/4840 [====>.........................] - ETA: 3s - loss: 10.6732 - mean\_absolute\_error: 2.4909 955/4840 [====>.........................] - ETA: 3s - loss: 10.7044 - mean\_absolute\_error: 2.49381015/4840 [=====>........................] - ETA: 3s - loss: 10.6874 - mean\_absolute\_error: 2.49181073/4840 [=====>........................] - ETA: 3s - loss: 10.6985 - mean\_absolute\_error: 2.49351132/4840 [======>.......................] - ETA: 3s - loss: 10.6801 - mean\_absolute\_error: 2.49171191/4840 [======>.......................] - ETA: 3s - loss: 10.6469 - mean\_absolute\_error: 2.48671251/4840 [======>.......................] - ETA: 3s - loss: 10.6496 - mean\_absolute\_error: 2.48671308/4840 [=======>......................] - ETA: 3s - loss: 10.6431 - mean\_absolute\_error: 2.48531368/4840 [=======>......................] - ETA: 2s - loss: 10.6169 - mean\_absolute\_error: 2.48261425/4840 [=======>......................] - ETA: 2s - loss: 10.6028 - mean\_absolute\_error: 2.48111484/4840 [========>.....................] - ETA: 2s - loss: 10.6119 - mean\_absolute\_error: 2.48211540/4840 [========>.....................] - ETA: 2s - loss: 10.5880 - mean\_absolute\_error: 2.47871600/4840 [========>.....................] - ETA: 2s - loss: 10.5795 - mean\_absolute\_error: 2.47671658/4840 [=========>....................] - ETA: 2s - loss: 10.5581 - mean\_absolute\_error: 2.47351717/4840 [=========>....................] - ETA: 2s - loss: 10.5547 - mean\_absolute\_error: 2.47291776/4840 [==========>...................] - ETA: 2s - loss: 10.5785 - mean\_absolute\_error: 2.47591837/4840 [==========>...................] - ETA: 2s - loss: 10.5857 - mean\_absolute\_error: 2.47651897/4840 [==========>...................] - ETA: 2s - loss: 10.5795 - mean\_absolute\_error: 2.47651955/4840 [===========>..................] - ETA: 2s - loss: 10.5834 - mean\_absolute\_error: 2.47722014/4840 [===========>..................] - ETA: 2s - loss: 10.5876 - mean\_absolute\_error: 2.47742075/4840 [===========>..................] - ETA: 2s - loss: 10.5713 - mean\_absolute\_error: 2.47542136/4840 [============>.................] - ETA: 2s - loss: 10.5643 - mean\_absolute\_error: 2.47412193/4840 [============>.................] - ETA: 2s - loss: 10.5839 - mean\_absolute\_error: 2.47742251/4840 [============>.................] - ETA: 2s - loss: 10.5816 - mean\_absolute\_error: 2.47682310/4840 [=============>................] - ETA: 2s - loss: 10.5730 - mean\_absolute\_error: 2.47562370/4840 [=============>................] - ETA: 2s - loss: 10.5687 - mean\_absolute\_error: 2.47462431/4840 [==============>...............] - ETA: 2s - loss: 10.5699 - mean\_absolute\_error: 2.47482492/4840 [==============>...............] - ETA: 2s - loss: 10.5681 - mean\_absolute\_error: 2.47472550/4840 [==============>...............] - ETA: 1s - loss: 10.5656 - mean\_absolute\_error: 2.47492609/4840 [===============>..............] - ETA: 1s - loss: 10.5663 - mean\_absolute\_error: 2.47402667/4840 [===============>..............] - ETA: 1s - loss: 10.5618 - mean\_absolute\_error: 2.47372726/4840 [===============>..............] - ETA: 1s - loss: 10.5566 - mean\_absolute\_error: 2.47352785/4840 [================>.............] - ETA: 1s - loss: 10.5634 - mean\_absolute\_error: 2.47432842/4840 [================>.............] - ETA: 1s - loss: 10.5709 - mean\_absolute\_error: 2.47492901/4840 [================>.............] - ETA: 1s - loss: 10.5735 - mean\_absolute\_error: 2.47562962/4840 [=================>............] - ETA: 1s - loss: 10.5622 - mean\_absolute\_error: 2.47453023/4840 [=================>............] - ETA: 1s - loss: 10.5638 - mean\_absolute\_error: 2.47493080/4840 [==================>...........] - ETA: 1s - loss: 10.5609 - mean\_absolute\_error: 2.47513138/4840 [==================>...........] - ETA: 1s - loss: 10.5731 - mean\_absolute\_error: 2.47773197/4840 [==================>...........] - ETA: 1s - loss: 10.5756 - mean\_absolute\_error: 2.47783258/4840 [===================>..........] - ETA: 1s - loss: 10.5827 - mean\_absolute\_error: 2.47893317/4840 [===================>..........] - ETA: 1s - loss: 10.5763 - mean\_absolute\_error: 2.47793375/4840 [===================>..........] - ETA: 1s - loss: 10.5794 - mean\_absolute\_error: 2.47833432/4840 [====================>.........] - ETA: 1s - loss: 10.5822 - mean\_absolute\_error: 2.47823491/4840 [====================>.........] - ETA: 1s - loss: 10.5937 - mean\_absolute\_error: 2.47973551/4840 [=====================>........] - ETA: 1s - loss: 10.5971 - mean\_absolute\_error: 2.48023612/4840 [=====================>........] - ETA: 1s - loss: 10.5978 - mean\_absolute\_error: 2.48053671/4840 [=====================>........] - ETA: 0s - loss: 10.5944 - mean\_absolute\_error: 2.48003727/4840 [======================>.......] - ETA: 0s - loss: 10.5879 - mean\_absolute\_error: 2.47883784/4840 [======================>.......] - ETA: 0s - loss: 10.5857 - mean\_absolute\_error: 2.47843842/4840 [======================>.......] - ETA: 0s - loss: 10.5852 - mean\_absolute\_error: 2.47893901/4840 [=======================>......] - ETA: 0s - loss: 10.5935 - mean\_absolute\_error: 2.48003960/4840 [=======================>......] - ETA: 0s - loss: 10.5877 - mean\_absolute\_error: 2.47874019/4840 [=======================>......] - ETA: 0s - loss: 10.5844 - mean\_absolute\_error: 2.47804077/4840 [========================>.....] - ETA: 0s - loss: 10.5874 - mean\_absolute\_error: 2.47854137/4840 [========================>.....] - ETA: 0s - loss: 10.6004 - mean\_absolute\_error: 2.47964196/4840 [=========================>....] - ETA: 0s - loss: 10.6004 - mean\_absolute\_error: 2.47994255/4840 [=========================>....] - ETA: 0s - loss: 10.6010 - mean\_absolute\_error: 2.47984314/4840 [=========================>....] - ETA: 0s - loss: 10.5949 - mean\_absolute\_error: 2.47894373/4840 [==========================>...] - ETA: 0s - loss: 10.5959 - mean\_absolute\_error: 2.47894433/4840 [==========================>...] - ETA: 0s - loss: 10.5951 - mean\_absolute\_error: 2.47894493/4840 [==========================>...] - ETA: 0s - loss: 10.5987 - mean\_absolute\_error: 2.47904550/4840 [===========================>..] - ETA: 0s - loss: 10.5908 - mean\_absolute\_error: 2.47784608/4840 [===========================>..] - ETA: 0s - loss: 10.5884 - mean\_absolute\_error: 2.47774666/4840 [===========================>..] - ETA: 0s - loss: 10.5890 - mean\_absolute\_error: 2.47784726/4840 [============================>.] - ETA: 0s - loss: 10.5885 - mean\_absolute\_error: 2.47764785/4840 [============================>.] - ETA: 0s - loss: 10.5867 - mean\_absolute\_error: 2.47734840/4840 [==============================] - 4s 896us/step - loss: 10.5863 - mean\_absolute\_error: 2.4772 - val\_loss: 11.4830 - val\_mean\_absolute\_error: 2.5836  
Epoch 23/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.2597 - mean\_absolute\_error: 2.5263 60/4840 [..............................] - ETA: 4s - loss: 10.7411 - mean\_absolute\_error: 2.5018 120/4840 [..............................] - ETA: 3s - loss: 10.1468 - mean\_absolute\_error: 2.4238 178/4840 [>.............................] - ETA: 3s - loss: 10.2567 - mean\_absolute\_error: 2.4408 235/4840 [>.............................] - ETA: 3s - loss: 10.4785 - mean\_absolute\_error: 2.4691 293/4840 [>.............................] - ETA: 3s - loss: 10.4379 - mean\_absolute\_error: 2.4589 352/4840 [=>............................] - ETA: 3s - loss: 10.3728 - mean\_absolute\_error: 2.4521 412/4840 [=>............................] - ETA: 3s - loss: 10.4202 - mean\_absolute\_error: 2.4576 471/4840 [=>............................] - ETA: 3s - loss: 10.5398 - mean\_absolute\_error: 2.4733 529/4840 [==>...........................] - ETA: 3s - loss: 10.5567 - mean\_absolute\_error: 2.4739 588/4840 [==>...........................] - ETA: 3s - loss: 10.5405 - mean\_absolute\_error: 2.4730 645/4840 [==>...........................] - ETA: 3s - loss: 10.5111 - mean\_absolute\_error: 2.4699 703/4840 [===>..........................] - ETA: 3s - loss: 10.5235 - mean\_absolute\_error: 2.4709 761/4840 [===>..........................] - ETA: 3s - loss: 10.5880 - mean\_absolute\_error: 2.4769 821/4840 [====>.........................] - ETA: 3s - loss: 10.5903 - mean\_absolute\_error: 2.4775 881/4840 [====>.........................] - ETA: 3s - loss: 10.5759 - mean\_absolute\_error: 2.4743 942/4840 [====>.........................] - ETA: 3s - loss: 10.5977 - mean\_absolute\_error: 2.4766 999/4840 [=====>........................] - ETA: 3s - loss: 10.5747 - mean\_absolute\_error: 2.47491057/4840 [=====>........................] - ETA: 3s - loss: 10.5971 - mean\_absolute\_error: 2.47961115/4840 [=====>........................] - ETA: 3s - loss: 10.5708 - mean\_absolute\_error: 2.47741173/4840 [======>.......................] - ETA: 3s - loss: 10.5597 - mean\_absolute\_error: 2.47651233/4840 [======>.......................] - ETA: 3s - loss: 10.5368 - mean\_absolute\_error: 2.47381292/4840 [=======>......................] - ETA: 3s - loss: 10.5439 - mean\_absolute\_error: 2.47341351/4840 [=======>......................] - ETA: 2s - loss: 10.5686 - mean\_absolute\_error: 2.47641411/4840 [=======>......................] - ETA: 2s - loss: 10.5665 - mean\_absolute\_error: 2.47701470/4840 [========>.....................] - ETA: 2s - loss: 10.5680 - mean\_absolute\_error: 2.47701530/4840 [========>.....................] - ETA: 2s - loss: 10.5486 - mean\_absolute\_error: 2.47351589/4840 [========>.....................] - ETA: 2s - loss: 10.5603 - mean\_absolute\_error: 2.47431649/4840 [=========>....................] - ETA: 2s - loss: 10.5565 - mean\_absolute\_error: 2.47351709/4840 [=========>....................] - ETA: 2s - loss: 10.5484 - mean\_absolute\_error: 2.47301762/4840 [=========>....................] - ETA: 2s - loss: 10.5453 - mean\_absolute\_error: 2.47291805/4840 [==========>...................] - ETA: 2s - loss: 10.5315 - mean\_absolute\_error: 2.47081856/4840 [==========>...................] - ETA: 2s - loss: 10.5288 - mean\_absolute\_error: 2.47101904/4840 [==========>...................] - ETA: 2s - loss: 10.5483 - mean\_absolute\_error: 2.47361950/4840 [===========>..................] - ETA: 2s - loss: 10.5377 - mean\_absolute\_error: 2.47271995/4840 [===========>..................] - ETA: 2s - loss: 10.5284 - mean\_absolute\_error: 2.47172040/4840 [===========>..................] - ETA: 2s - loss: 10.5338 - mean\_absolute\_error: 2.47282087/4840 [===========>..................] - ETA: 2s - loss: 10.5553 - mean\_absolute\_error: 2.47502137/4840 [============>.................] - ETA: 2s - loss: 10.5563 - mean\_absolute\_error: 2.47442190/4840 [============>.................] - ETA: 2s - loss: 10.5640 - mean\_absolute\_error: 2.47522245/4840 [============>.................] - ETA: 2s - loss: 10.5639 - mean\_absolute\_error: 2.47512300/4840 [=============>................] - ETA: 2s - loss: 10.5616 - mean\_absolute\_error: 2.47532346/4840 [=============>................] - ETA: 2s - loss: 10.5662 - mean\_absolute\_error: 2.47592396/4840 [=============>................] - ETA: 2s - loss: 10.5545 - mean\_absolute\_error: 2.47482449/4840 [==============>...............] - ETA: 2s - loss: 10.5553 - mean\_absolute\_error: 2.47472502/4840 [==============>...............] - ETA: 2s - loss: 10.5482 - mean\_absolute\_error: 2.47382557/4840 [==============>...............] - ETA: 2s - loss: 10.5387 - mean\_absolute\_error: 2.47272613/4840 [===============>..............] - ETA: 2s - loss: 10.5359 - mean\_absolute\_error: 2.47212668/4840 [===============>..............] - ETA: 1s - loss: 10.5275 - mean\_absolute\_error: 2.47022727/4840 [===============>..............] - ETA: 1s - loss: 10.5388 - mean\_absolute\_error: 2.47192783/4840 [================>.............] - ETA: 1s - loss: 10.5442 - mean\_absolute\_error: 2.47212840/4840 [================>.............] - ETA: 1s - loss: 10.5414 - mean\_absolute\_error: 2.47212897/4840 [================>.............] - ETA: 1s - loss: 10.5300 - mean\_absolute\_error: 2.47072954/4840 [=================>............] - ETA: 1s - loss: 10.5480 - mean\_absolute\_error: 2.47273013/4840 [=================>............] - ETA: 1s - loss: 10.5504 - mean\_absolute\_error: 2.47343072/4840 [==================>...........] - ETA: 1s - loss: 10.5407 - mean\_absolute\_error: 2.47213129/4840 [==================>...........] - ETA: 1s - loss: 10.5395 - mean\_absolute\_error: 2.47173184/4840 [==================>...........] - ETA: 1s - loss: 10.5391 - mean\_absolute\_error: 2.47143241/4840 [===================>..........] - ETA: 1s - loss: 10.5485 - mean\_absolute\_error: 2.47303296/4840 [===================>..........] - ETA: 1s - loss: 10.5522 - mean\_absolute\_error: 2.47353352/4840 [===================>..........] - ETA: 1s - loss: 10.5522 - mean\_absolute\_error: 2.47353408/4840 [====================>.........] - ETA: 1s - loss: 10.5618 - mean\_absolute\_error: 2.47453466/4840 [====================>.........] - ETA: 1s - loss: 10.5566 - mean\_absolute\_error: 2.47373524/4840 [====================>.........] - ETA: 1s - loss: 10.5612 - mean\_absolute\_error: 2.47453582/4840 [=====================>........] - ETA: 1s - loss: 10.5620 - mean\_absolute\_error: 2.47443640/4840 [=====================>........] - ETA: 1s - loss: 10.5588 - mean\_absolute\_error: 2.47343697/4840 [=====================>........] - ETA: 1s - loss: 10.5693 - mean\_absolute\_error: 2.47493756/4840 [======================>.......] - ETA: 0s - loss: 10.5796 - mean\_absolute\_error: 2.47633815/4840 [======================>.......] - ETA: 0s - loss: 10.5719 - mean\_absolute\_error: 2.47533863/4840 [======================>.......] - ETA: 0s - loss: 10.5709 - mean\_absolute\_error: 2.47543900/4840 [=======================>......] - ETA: 0s - loss: 10.5603 - mean\_absolute\_error: 2.47403937/4840 [=======================>......] - ETA: 0s - loss: 10.5585 - mean\_absolute\_error: 2.47383987/4840 [=======================>......] - ETA: 0s - loss: 10.5477 - mean\_absolute\_error: 2.47214039/4840 [========================>.....] - ETA: 0s - loss: 10.5519 - mean\_absolute\_error: 2.47254093/4840 [========================>.....] - ETA: 0s - loss: 10.5514 - mean\_absolute\_error: 2.47244150/4840 [========================>.....] - ETA: 0s - loss: 10.5440 - mean\_absolute\_error: 2.47154204/4840 [=========================>....] - ETA: 0s - loss: 10.5490 - mean\_absolute\_error: 2.47214260/4840 [=========================>....] - ETA: 0s - loss: 10.5482 - mean\_absolute\_error: 2.47174318/4840 [=========================>....] - ETA: 0s - loss: 10.5498 - mean\_absolute\_error: 2.47174377/4840 [==========================>...] - ETA: 0s - loss: 10.5545 - mean\_absolute\_error: 2.47234436/4840 [==========================>...] - ETA: 0s - loss: 10.5669 - mean\_absolute\_error: 2.47364494/4840 [==========================>...] - ETA: 0s - loss: 10.5711 - mean\_absolute\_error: 2.47434552/4840 [===========================>..] - ETA: 0s - loss: 10.5720 - mean\_absolute\_error: 2.47444611/4840 [===========================>..] - ETA: 0s - loss: 10.5746 - mean\_absolute\_error: 2.47484668/4840 [===========================>..] - ETA: 0s - loss: 10.5736 - mean\_absolute\_error: 2.47494726/4840 [============================>.] - ETA: 0s - loss: 10.5681 - mean\_absolute\_error: 2.47434784/4840 [============================>.] - ETA: 0s - loss: 10.5726 - mean\_absolute\_error: 2.47444840/4840 [==============================] - 5s 952us/step - loss: 10.5703 - mean\_absolute\_error: 2.4743 - val\_loss: 11.4749 - val\_mean\_absolute\_error: 2.5818  
Epoch 24/100  
 1/4840 [..............................] - ETA: 4s - loss: 13.8886 - mean\_absolute\_error: 2.8709 60/4840 [..............................] - ETA: 4s - loss: 10.7074 - mean\_absolute\_error: 2.4656 119/4840 [..............................] - ETA: 4s - loss: 10.6794 - mean\_absolute\_error: 2.4694 177/4840 [>.............................] - ETA: 4s - loss: 10.5742 - mean\_absolute\_error: 2.4609 235/4840 [>.............................] - ETA: 3s - loss: 10.5943 - mean\_absolute\_error: 2.4641 291/4840 [>.............................] - ETA: 3s - loss: 10.5619 - mean\_absolute\_error: 2.4647 348/4840 [=>............................] - ETA: 3s - loss: 10.5437 - mean\_absolute\_error: 2.4585 406/4840 [=>............................] - ETA: 3s - loss: 10.5879 - mean\_absolute\_error: 2.4618 464/4840 [=>............................] - ETA: 3s - loss: 10.5838 - mean\_absolute\_error: 2.4641 524/4840 [==>...........................] - ETA: 3s - loss: 10.5958 - mean\_absolute\_error: 2.4687 583/4840 [==>...........................] - ETA: 3s - loss: 10.5974 - mean\_absolute\_error: 2.4715 641/4840 [==>...........................] - ETA: 3s - loss: 10.5346 - mean\_absolute\_error: 2.4623 698/4840 [===>..........................] - ETA: 3s - loss: 10.5681 - mean\_absolute\_error: 2.4660 755/4840 [===>..........................] - ETA: 3s - loss: 10.5913 - mean\_absolute\_error: 2.4699 813/4840 [====>.........................] - ETA: 3s - loss: 10.5818 - mean\_absolute\_error: 2.4694 872/4840 [====>.........................] - ETA: 3s - loss: 10.5503 - mean\_absolute\_error: 2.4659 931/4840 [====>.........................] - ETA: 3s - loss: 10.5352 - mean\_absolute\_error: 2.4652 990/4840 [=====>........................] - ETA: 3s - loss: 10.5360 - mean\_absolute\_error: 2.46411047/4840 [=====>........................] - ETA: 3s - loss: 10.5419 - mean\_absolute\_error: 2.46491103/4840 [=====>........................] - ETA: 3s - loss: 10.5265 - mean\_absolute\_error: 2.46371160/4840 [======>.......................] - ETA: 3s - loss: 10.5462 - mean\_absolute\_error: 2.46691218/4840 [======>.......................] - ETA: 3s - loss: 10.5581 - mean\_absolute\_error: 2.46821275/4840 [======>.......................] - ETA: 3s - loss: 10.5606 - mean\_absolute\_error: 2.46901334/4840 [=======>......................] - ETA: 3s - loss: 10.5339 - mean\_absolute\_error: 2.46561391/4840 [=======>......................] - ETA: 3s - loss: 10.5292 - mean\_absolute\_error: 2.46621446/4840 [=======>......................] - ETA: 2s - loss: 10.5221 - mean\_absolute\_error: 2.46541504/4840 [========>.....................] - ETA: 2s - loss: 10.5173 - mean\_absolute\_error: 2.46641561/4840 [========>.....................] - ETA: 2s - loss: 10.5082 - mean\_absolute\_error: 2.46501618/4840 [=========>....................] - ETA: 2s - loss: 10.5202 - mean\_absolute\_error: 2.46681676/4840 [=========>....................] - ETA: 2s - loss: 10.4924 - mean\_absolute\_error: 2.46191735/4840 [=========>....................] - ETA: 2s - loss: 10.5096 - mean\_absolute\_error: 2.46421795/4840 [==========>...................] - ETA: 2s - loss: 10.5173 - mean\_absolute\_error: 2.46531854/4840 [==========>...................] - ETA: 2s - loss: 10.5101 - mean\_absolute\_error: 2.46431911/4840 [==========>...................] - ETA: 2s - loss: 10.5189 - mean\_absolute\_error: 2.46521965/4840 [===========>..................] - ETA: 2s - loss: 10.5162 - mean\_absolute\_error: 2.46472023/4840 [===========>..................] - ETA: 2s - loss: 10.5165 - mean\_absolute\_error: 2.46482081/4840 [===========>..................] - ETA: 2s - loss: 10.5140 - mean\_absolute\_error: 2.46462139/4840 [============>.................] - ETA: 2s - loss: 10.5139 - mean\_absolute\_error: 2.46492196/4840 [============>.................] - ETA: 2s - loss: 10.5198 - mean\_absolute\_error: 2.46602251/4840 [============>.................] - ETA: 2s - loss: 10.5239 - mean\_absolute\_error: 2.46672304/4840 [=============>................] - ETA: 2s - loss: 10.5403 - mean\_absolute\_error: 2.46972361/4840 [=============>................] - ETA: 2s - loss: 10.5391 - mean\_absolute\_error: 2.46972421/4840 [==============>...............] - ETA: 2s - loss: 10.5457 - mean\_absolute\_error: 2.47072479/4840 [==============>...............] - ETA: 2s - loss: 10.5420 - mean\_absolute\_error: 2.47072536/4840 [==============>...............] - ETA: 2s - loss: 10.5350 - mean\_absolute\_error: 2.46942592/4840 [===============>..............] - ETA: 1s - loss: 10.5381 - mean\_absolute\_error: 2.46982649/4840 [===============>..............] - ETA: 1s - loss: 10.5453 - mean\_absolute\_error: 2.47042707/4840 [===============>..............] - ETA: 1s - loss: 10.5306 - mean\_absolute\_error: 2.46882767/4840 [================>.............] - ETA: 1s - loss: 10.5420 - mean\_absolute\_error: 2.46992826/4840 [================>.............] - ETA: 1s - loss: 10.5381 - mean\_absolute\_error: 2.46942887/4840 [================>.............] - ETA: 1s - loss: 10.5385 - mean\_absolute\_error: 2.46942945/4840 [=================>............] - ETA: 1s - loss: 10.5336 - mean\_absolute\_error: 2.46893004/4840 [=================>............] - ETA: 1s - loss: 10.5247 - mean\_absolute\_error: 2.46733063/4840 [=================>............] - ETA: 1s - loss: 10.5252 - mean\_absolute\_error: 2.46723121/4840 [==================>...........] - ETA: 1s - loss: 10.5240 - mean\_absolute\_error: 2.46713179/4840 [==================>...........] - ETA: 1s - loss: 10.5280 - mean\_absolute\_error: 2.46733239/4840 [===================>..........] - ETA: 1s - loss: 10.5210 - mean\_absolute\_error: 2.46653298/4840 [===================>..........] - ETA: 1s - loss: 10.5233 - mean\_absolute\_error: 2.46703355/4840 [===================>..........] - ETA: 1s - loss: 10.5243 - mean\_absolute\_error: 2.46663413/4840 [====================>.........] - ETA: 1s - loss: 10.5294 - mean\_absolute\_error: 2.46793471/4840 [====================>.........] - ETA: 1s - loss: 10.5262 - mean\_absolute\_error: 2.46763530/4840 [====================>.........] - ETA: 1s - loss: 10.5238 - mean\_absolute\_error: 2.46743587/4840 [=====================>........] - ETA: 1s - loss: 10.5223 - mean\_absolute\_error: 2.46733645/4840 [=====================>........] - ETA: 1s - loss: 10.5270 - mean\_absolute\_error: 2.46803703/4840 [=====================>........] - ETA: 0s - loss: 10.5189 - mean\_absolute\_error: 2.46653759/4840 [======================>.......] - ETA: 0s - loss: 10.5194 - mean\_absolute\_error: 2.46703818/4840 [======================>.......] - ETA: 0s - loss: 10.5216 - mean\_absolute\_error: 2.46763877/4840 [=======================>......] - ETA: 0s - loss: 10.5325 - mean\_absolute\_error: 2.46923937/4840 [=======================>......] - ETA: 0s - loss: 10.5299 - mean\_absolute\_error: 2.46883994/4840 [=======================>......] - ETA: 0s - loss: 10.5360 - mean\_absolute\_error: 2.46944053/4840 [========================>.....] - ETA: 0s - loss: 10.5418 - mean\_absolute\_error: 2.47024112/4840 [========================>.....] - ETA: 0s - loss: 10.5371 - mean\_absolute\_error: 2.47004172/4840 [========================>.....] - ETA: 0s - loss: 10.5461 - mean\_absolute\_error: 2.47124230/4840 [=========================>....] - ETA: 0s - loss: 10.5484 - mean\_absolute\_error: 2.47134289/4840 [=========================>....] - ETA: 0s - loss: 10.5509 - mean\_absolute\_error: 2.47184349/4840 [=========================>....] - ETA: 0s - loss: 10.5611 - mean\_absolute\_error: 2.47284409/4840 [==========================>...] - ETA: 0s - loss: 10.5612 - mean\_absolute\_error: 2.47294468/4840 [==========================>...] - ETA: 0s - loss: 10.5490 - mean\_absolute\_error: 2.47144526/4840 [===========================>..] - ETA: 0s - loss: 10.5516 - mean\_absolute\_error: 2.47164583/4840 [===========================>..] - ETA: 0s - loss: 10.5502 - mean\_absolute\_error: 2.47134641/4840 [===========================>..] - ETA: 0s - loss: 10.5487 - mean\_absolute\_error: 2.47094699/4840 [============================>.] - ETA: 0s - loss: 10.5506 - mean\_absolute\_error: 2.47124757/4840 [============================>.] - ETA: 0s - loss: 10.5533 - mean\_absolute\_error: 2.47174815/4840 [============================>.] - ETA: 0s - loss: 10.5571 - mean\_absolute\_error: 2.47234840/4840 [==============================] - 4s 913us/step - loss: 10.5580 - mean\_absolute\_error: 2.4725 - val\_loss: 11.4713 - val\_mean\_absolute\_error: 2.5818  
Epoch 25/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.2109 - mean\_absolute\_error: 2.6464 60/4840 [..............................] - ETA: 4s - loss: 10.5740 - mean\_absolute\_error: 2.4793 120/4840 [..............................] - ETA: 4s - loss: 10.4148 - mean\_absolute\_error: 2.4524 180/4840 [>.............................] - ETA: 3s - loss: 10.2845 - mean\_absolute\_error: 2.4343 238/4840 [>.............................] - ETA: 3s - loss: 10.3484 - mean\_absolute\_error: 2.4388 295/4840 [>.............................] - ETA: 3s - loss: 10.2516 - mean\_absolute\_error: 2.4216 354/4840 [=>............................] - ETA: 3s - loss: 10.3754 - mean\_absolute\_error: 2.4409 413/4840 [=>............................] - ETA: 3s - loss: 10.3657 - mean\_absolute\_error: 2.4398 473/4840 [=>............................] - ETA: 3s - loss: 10.3840 - mean\_absolute\_error: 2.4448 532/4840 [==>...........................] - ETA: 3s - loss: 10.4568 - mean\_absolute\_error: 2.4572 590/4840 [==>...........................] - ETA: 3s - loss: 10.4693 - mean\_absolute\_error: 2.4588 647/4840 [===>..........................] - ETA: 3s - loss: 10.4638 - mean\_absolute\_error: 2.4588 704/4840 [===>..........................] - ETA: 3s - loss: 10.4463 - mean\_absolute\_error: 2.4593 762/4840 [===>..........................] - ETA: 3s - loss: 10.4823 - mean\_absolute\_error: 2.4633 821/4840 [====>.........................] - ETA: 3s - loss: 10.4811 - mean\_absolute\_error: 2.4622 881/4840 [====>.........................] - ETA: 3s - loss: 10.4659 - mean\_absolute\_error: 2.4597 939/4840 [====>.........................] - ETA: 3s - loss: 10.4636 - mean\_absolute\_error: 2.4606 997/4840 [=====>........................] - ETA: 3s - loss: 10.4841 - mean\_absolute\_error: 2.46261056/4840 [=====>........................] - ETA: 3s - loss: 10.4558 - mean\_absolute\_error: 2.45861114/4840 [=====>........................] - ETA: 3s - loss: 10.4525 - mean\_absolute\_error: 2.45721175/4840 [======>.......................] - ETA: 3s - loss: 10.4600 - mean\_absolute\_error: 2.45871235/4840 [======>.......................] - ETA: 3s - loss: 10.4629 - mean\_absolute\_error: 2.45941295/4840 [=======>......................] - ETA: 3s - loss: 10.4676 - mean\_absolute\_error: 2.45951352/4840 [=======>......................] - ETA: 2s - loss: 10.4464 - mean\_absolute\_error: 2.45571407/4840 [=======>......................] - ETA: 2s - loss: 10.4506 - mean\_absolute\_error: 2.45641465/4840 [========>.....................] - ETA: 2s - loss: 10.4756 - mean\_absolute\_error: 2.45991524/4840 [========>.....................] - ETA: 2s - loss: 10.4680 - mean\_absolute\_error: 2.45831582/4840 [========>.....................] - ETA: 2s - loss: 10.4530 - mean\_absolute\_error: 2.45641640/4840 [=========>....................] - ETA: 2s - loss: 10.4618 - mean\_absolute\_error: 2.45721699/4840 [=========>....................] - ETA: 2s - loss: 10.4576 - mean\_absolute\_error: 2.45691757/4840 [=========>....................] - ETA: 2s - loss: 10.4710 - mean\_absolute\_error: 2.45771813/4840 [==========>...................] - ETA: 2s - loss: 10.4739 - mean\_absolute\_error: 2.45811871/4840 [==========>...................] - ETA: 2s - loss: 10.4908 - mean\_absolute\_error: 2.46041931/4840 [==========>...................] - ETA: 2s - loss: 10.4852 - mean\_absolute\_error: 2.46021989/4840 [===========>..................] - ETA: 2s - loss: 10.5049 - mean\_absolute\_error: 2.46252047/4840 [===========>..................] - ETA: 2s - loss: 10.5212 - mean\_absolute\_error: 2.46512104/4840 [============>.................] - ETA: 2s - loss: 10.5154 - mean\_absolute\_error: 2.46552163/4840 [============>.................] - ETA: 2s - loss: 10.5271 - mean\_absolute\_error: 2.46702221/4840 [============>.................] - ETA: 2s - loss: 10.5259 - mean\_absolute\_error: 2.46712280/4840 [=============>................] - ETA: 2s - loss: 10.5249 - mean\_absolute\_error: 2.46702339/4840 [=============>................] - ETA: 2s - loss: 10.5300 - mean\_absolute\_error: 2.46822399/4840 [=============>................] - ETA: 2s - loss: 10.5306 - mean\_absolute\_error: 2.46802458/4840 [==============>...............] - ETA: 2s - loss: 10.5262 - mean\_absolute\_error: 2.46792517/4840 [==============>...............] - ETA: 2s - loss: 10.5278 - mean\_absolute\_error: 2.46832576/4840 [==============>...............] - ETA: 1s - loss: 10.5145 - mean\_absolute\_error: 2.46682636/4840 [===============>..............] - ETA: 1s - loss: 10.5024 - mean\_absolute\_error: 2.46562694/4840 [===============>..............] - ETA: 1s - loss: 10.5053 - mean\_absolute\_error: 2.46622754/4840 [================>.............] - ETA: 1s - loss: 10.5164 - mean\_absolute\_error: 2.46772813/4840 [================>.............] - ETA: 1s - loss: 10.5306 - mean\_absolute\_error: 2.46932869/4840 [================>.............] - ETA: 1s - loss: 10.5306 - mean\_absolute\_error: 2.46912926/4840 [=================>............] - ETA: 1s - loss: 10.5308 - mean\_absolute\_error: 2.46892984/4840 [=================>............] - ETA: 1s - loss: 10.5351 - mean\_absolute\_error: 2.46953042/4840 [=================>............] - ETA: 1s - loss: 10.5390 - mean\_absolute\_error: 2.46973099/4840 [==================>...........] - ETA: 1s - loss: 10.5403 - mean\_absolute\_error: 2.47003157/4840 [==================>...........] - ETA: 1s - loss: 10.5348 - mean\_absolute\_error: 2.46883216/4840 [==================>...........] - ETA: 1s - loss: 10.5503 - mean\_absolute\_error: 2.47093270/4840 [===================>..........] - ETA: 1s - loss: 10.5578 - mean\_absolute\_error: 2.47173327/4840 [===================>..........] - ETA: 1s - loss: 10.5589 - mean\_absolute\_error: 2.47173381/4840 [===================>..........] - ETA: 1s - loss: 10.5546 - mean\_absolute\_error: 2.47153436/4840 [====================>.........] - ETA: 1s - loss: 10.5596 - mean\_absolute\_error: 2.47233493/4840 [====================>.........] - ETA: 1s - loss: 10.5477 - mean\_absolute\_error: 2.47073546/4840 [====================>.........] - ETA: 1s - loss: 10.5477 - mean\_absolute\_error: 2.47053602/4840 [=====================>........] - ETA: 1s - loss: 10.5433 - mean\_absolute\_error: 2.47023657/4840 [=====================>........] - ETA: 1s - loss: 10.5397 - mean\_absolute\_error: 2.46983715/4840 [======================>.......] - ETA: 0s - loss: 10.5396 - mean\_absolute\_error: 2.47013770/4840 [======================>.......] - ETA: 0s - loss: 10.5432 - mean\_absolute\_error: 2.47043827/4840 [======================>.......] - ETA: 0s - loss: 10.5310 - mean\_absolute\_error: 2.46893884/4840 [=======================>......] - ETA: 0s - loss: 10.5257 - mean\_absolute\_error: 2.46823942/4840 [=======================>......] - ETA: 0s - loss: 10.5328 - mean\_absolute\_error: 2.46914001/4840 [=======================>......] - ETA: 0s - loss: 10.5424 - mean\_absolute\_error: 2.47034059/4840 [========================>.....] - ETA: 0s - loss: 10.5531 - mean\_absolute\_error: 2.47194117/4840 [========================>.....] - ETA: 0s - loss: 10.5594 - mean\_absolute\_error: 2.47274174/4840 [========================>.....] - ETA: 0s - loss: 10.5550 - mean\_absolute\_error: 2.47224230/4840 [=========================>....] - ETA: 0s - loss: 10.5584 - mean\_absolute\_error: 2.47254284/4840 [=========================>....] - ETA: 0s - loss: 10.5553 - mean\_absolute\_error: 2.47204342/4840 [=========================>....] - ETA: 0s - loss: 10.5517 - mean\_absolute\_error: 2.47174390/4840 [==========================>...] - ETA: 0s - loss: 10.5548 - mean\_absolute\_error: 2.47224436/4840 [==========================>...] - ETA: 0s - loss: 10.5563 - mean\_absolute\_error: 2.47234482/4840 [==========================>...] - ETA: 0s - loss: 10.5445 - mean\_absolute\_error: 2.47054522/4840 [===========================>..] - ETA: 0s - loss: 10.5459 - mean\_absolute\_error: 2.47044569/4840 [===========================>..] - ETA: 0s - loss: 10.5436 - mean\_absolute\_error: 2.47054620/4840 [===========================>..] - ETA: 0s - loss: 10.5455 - mean\_absolute\_error: 2.47064675/4840 [===========================>..] - ETA: 0s - loss: 10.5512 - mean\_absolute\_error: 2.47204733/4840 [============================>.] - ETA: 0s - loss: 10.5540 - mean\_absolute\_error: 2.47214790/4840 [============================>.] - ETA: 0s - loss: 10.5516 - mean\_absolute\_error: 2.47194840/4840 [==============================] - 4s 928us/step - loss: 10.5467 - mean\_absolute\_error: 2.4714 - val\_loss: 11.4679 - val\_mean\_absolute\_error: 2.5820  
Epoch 26/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.6391 - mean\_absolute\_error: 1.9267 58/4840 [..............................] - ETA: 4s - loss: 9.8002 - mean\_absolute\_error: 2.3725 117/4840 [..............................] - ETA: 4s - loss: 10.0100 - mean\_absolute\_error: 2.4030 176/4840 [>.............................] - ETA: 4s - loss: 10.1859 - mean\_absolute\_error: 2.4268 234/4840 [>.............................] - ETA: 3s - loss: 10.2875 - mean\_absolute\_error: 2.4429 292/4840 [>.............................] - ETA: 3s - loss: 10.2868 - mean\_absolute\_error: 2.4385 349/4840 [=>............................] - ETA: 3s - loss: 10.2755 - mean\_absolute\_error: 2.4423 405/4840 [=>............................] - ETA: 3s - loss: 10.2593 - mean\_absolute\_error: 2.4413 461/4840 [=>............................] - ETA: 3s - loss: 10.2541 - mean\_absolute\_error: 2.4422 519/4840 [==>...........................] - ETA: 3s - loss: 10.2953 - mean\_absolute\_error: 2.4461 576/4840 [==>...........................] - ETA: 3s - loss: 10.3077 - mean\_absolute\_error: 2.4456 634/4840 [==>...........................] - ETA: 3s - loss: 10.3069 - mean\_absolute\_error: 2.4430 694/4840 [===>..........................] - ETA: 3s - loss: 10.2621 - mean\_absolute\_error: 2.4376 754/4840 [===>..........................] - ETA: 3s - loss: 10.3591 - mean\_absolute\_error: 2.4520 812/4840 [====>.........................] - ETA: 3s - loss: 10.3789 - mean\_absolute\_error: 2.4541 870/4840 [====>.........................] - ETA: 3s - loss: 10.3481 - mean\_absolute\_error: 2.4488 929/4840 [====>.........................] - ETA: 3s - loss: 10.3473 - mean\_absolute\_error: 2.4484 988/4840 [=====>........................] - ETA: 3s - loss: 10.3636 - mean\_absolute\_error: 2.44931048/4840 [=====>........................] - ETA: 3s - loss: 10.3728 - mean\_absolute\_error: 2.45091106/4840 [=====>........................] - ETA: 3s - loss: 10.3645 - mean\_absolute\_error: 2.44951165/4840 [======>.......................] - ETA: 3s - loss: 10.3586 - mean\_absolute\_error: 2.44791225/4840 [======>.......................] - ETA: 3s - loss: 10.4215 - mean\_absolute\_error: 2.45521283/4840 [======>.......................] - ETA: 3s - loss: 10.4275 - mean\_absolute\_error: 2.45731341/4840 [=======>......................] - ETA: 3s - loss: 10.4351 - mean\_absolute\_error: 2.45771396/4840 [=======>......................] - ETA: 2s - loss: 10.4550 - mean\_absolute\_error: 2.46081456/4840 [========>.....................] - ETA: 2s - loss: 10.4497 - mean\_absolute\_error: 2.46031514/4840 [========>.....................] - ETA: 2s - loss: 10.4308 - mean\_absolute\_error: 2.45781571/4840 [========>.....................] - ETA: 2s - loss: 10.4522 - mean\_absolute\_error: 2.46091628/4840 [=========>....................] - ETA: 2s - loss: 10.4393 - mean\_absolute\_error: 2.45931685/4840 [=========>....................] - ETA: 2s - loss: 10.4455 - mean\_absolute\_error: 2.46061744/4840 [=========>....................] - ETA: 2s - loss: 10.4439 - mean\_absolute\_error: 2.46011803/4840 [==========>...................] - ETA: 2s - loss: 10.4423 - mean\_absolute\_error: 2.46071862/4840 [==========>...................] - ETA: 2s - loss: 10.4573 - mean\_absolute\_error: 2.46311922/4840 [==========>...................] - ETA: 2s - loss: 10.4522 - mean\_absolute\_error: 2.46181981/4840 [===========>..................] - ETA: 2s - loss: 10.4657 - mean\_absolute\_error: 2.46302038/4840 [===========>..................] - ETA: 2s - loss: 10.4725 - mean\_absolute\_error: 2.46362098/4840 [============>.................] - ETA: 2s - loss: 10.4753 - mean\_absolute\_error: 2.46312158/4840 [============>.................] - ETA: 2s - loss: 10.4813 - mean\_absolute\_error: 2.46332215/4840 [============>.................] - ETA: 2s - loss: 10.4828 - mean\_absolute\_error: 2.46422273/4840 [=============>................] - ETA: 2s - loss: 10.4818 - mean\_absolute\_error: 2.46422330/4840 [=============>................] - ETA: 2s - loss: 10.4891 - mean\_absolute\_error: 2.46532388/4840 [=============>................] - ETA: 2s - loss: 10.4999 - mean\_absolute\_error: 2.46672448/4840 [==============>...............] - ETA: 2s - loss: 10.4895 - mean\_absolute\_error: 2.46522506/4840 [==============>...............] - ETA: 2s - loss: 10.4866 - mean\_absolute\_error: 2.46512565/4840 [==============>...............] - ETA: 1s - loss: 10.4877 - mean\_absolute\_error: 2.46492623/4840 [===============>..............] - ETA: 1s - loss: 10.4837 - mean\_absolute\_error: 2.46452680/4840 [===============>..............] - ETA: 1s - loss: 10.4916 - mean\_absolute\_error: 2.46572738/4840 [===============>..............] - ETA: 1s - loss: 10.4820 - mean\_absolute\_error: 2.46442797/4840 [================>.............] - ETA: 1s - loss: 10.4924 - mean\_absolute\_error: 2.46512854/4840 [================>.............] - ETA: 1s - loss: 10.4992 - mean\_absolute\_error: 2.46582913/4840 [=================>............] - ETA: 1s - loss: 10.4939 - mean\_absolute\_error: 2.46552973/4840 [=================>............] - ETA: 1s - loss: 10.4910 - mean\_absolute\_error: 2.46453033/4840 [=================>............] - ETA: 1s - loss: 10.4956 - mean\_absolute\_error: 2.46493092/4840 [==================>...........] - ETA: 1s - loss: 10.4963 - mean\_absolute\_error: 2.46513150/4840 [==================>...........] - ETA: 1s - loss: 10.4807 - mean\_absolute\_error: 2.46333210/4840 [==================>...........] - ETA: 1s - loss: 10.4893 - mean\_absolute\_error: 2.46403269/4840 [===================>..........] - ETA: 1s - loss: 10.4929 - mean\_absolute\_error: 2.46473327/4840 [===================>..........] - ETA: 1s - loss: 10.4890 - mean\_absolute\_error: 2.46403386/4840 [===================>..........] - ETA: 1s - loss: 10.5016 - mean\_absolute\_error: 2.46543444/4840 [====================>.........] - ETA: 1s - loss: 10.5069 - mean\_absolute\_error: 2.46623503/4840 [====================>.........] - ETA: 1s - loss: 10.5163 - mean\_absolute\_error: 2.46713561/4840 [=====================>........] - ETA: 1s - loss: 10.5258 - mean\_absolute\_error: 2.46843620/4840 [=====================>........] - ETA: 1s - loss: 10.5238 - mean\_absolute\_error: 2.46793679/4840 [=====================>........] - ETA: 1s - loss: 10.5325 - mean\_absolute\_error: 2.46893736/4840 [======================>.......] - ETA: 0s - loss: 10.5343 - mean\_absolute\_error: 2.46873795/4840 [======================>.......] - ETA: 0s - loss: 10.5386 - mean\_absolute\_error: 2.46963851/4840 [======================>.......] - ETA: 0s - loss: 10.5381 - mean\_absolute\_error: 2.46993908/4840 [=======================>......] - ETA: 0s - loss: 10.5475 - mean\_absolute\_error: 2.47133966/4840 [=======================>......] - ETA: 0s - loss: 10.5499 - mean\_absolute\_error: 2.47164024/4840 [=======================>......] - ETA: 0s - loss: 10.5414 - mean\_absolute\_error: 2.47054083/4840 [========================>.....] - ETA: 0s - loss: 10.5464 - mean\_absolute\_error: 2.47074140/4840 [========================>.....] - ETA: 0s - loss: 10.5447 - mean\_absolute\_error: 2.47054198/4840 [=========================>....] - ETA: 0s - loss: 10.5449 - mean\_absolute\_error: 2.47074256/4840 [=========================>....] - ETA: 0s - loss: 10.5424 - mean\_absolute\_error: 2.47054313/4840 [=========================>....] - ETA: 0s - loss: 10.5479 - mean\_absolute\_error: 2.47124372/4840 [==========================>...] - ETA: 0s - loss: 10.5428 - mean\_absolute\_error: 2.47064430/4840 [==========================>...] - ETA: 0s - loss: 10.5454 - mean\_absolute\_error: 2.47114490/4840 [==========================>...] - ETA: 0s - loss: 10.5365 - mean\_absolute\_error: 2.46974546/4840 [===========================>..] - ETA: 0s - loss: 10.5316 - mean\_absolute\_error: 2.46934603/4840 [===========================>..] - ETA: 0s - loss: 10.5289 - mean\_absolute\_error: 2.46904658/4840 [===========================>..] - ETA: 0s - loss: 10.5257 - mean\_absolute\_error: 2.46854714/4840 [============================>.] - ETA: 0s - loss: 10.5329 - mean\_absolute\_error: 2.46944770/4840 [============================>.] - ETA: 0s - loss: 10.5414 - mean\_absolute\_error: 2.47024827/4840 [============================>.] - ETA: 0s - loss: 10.5434 - mean\_absolute\_error: 2.47034840/4840 [==============================] - 4s 912us/step - loss: 10.5395 - mean\_absolute\_error: 2.4697 - val\_loss: 11.4645 - val\_mean\_absolute\_error: 2.5817  
Epoch 27/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.4983 - mean\_absolute\_error: 2.5489 58/4840 [..............................] - ETA: 4s - loss: 10.8313 - mean\_absolute\_error: 2.5223 117/4840 [..............................] - ETA: 4s - loss: 10.4529 - mean\_absolute\_error: 2.4759 170/4840 [>.............................] - ETA: 4s - loss: 10.3875 - mean\_absolute\_error: 2.4636 228/4840 [>.............................] - ETA: 4s - loss: 10.5254 - mean\_absolute\_error: 2.4753 286/4840 [>.............................] - ETA: 4s - loss: 10.5946 - mean\_absolute\_error: 2.4791 344/4840 [=>............................] - ETA: 3s - loss: 10.4749 - mean\_absolute\_error: 2.4663 392/4840 [=>............................] - ETA: 4s - loss: 10.5524 - mean\_absolute\_error: 2.4748 436/4840 [=>............................] - ETA: 4s - loss: 10.5276 - mean\_absolute\_error: 2.4724 487/4840 [==>...........................] - ETA: 4s - loss: 10.5213 - mean\_absolute\_error: 2.4680 540/4840 [==>...........................] - ETA: 4s - loss: 10.4305 - mean\_absolute\_error: 2.4594 596/4840 [==>...........................] - ETA: 3s - loss: 10.4891 - mean\_absolute\_error: 2.4684 653/4840 [===>..........................] - ETA: 3s - loss: 10.4310 - mean\_absolute\_error: 2.4608 711/4840 [===>..........................] - ETA: 3s - loss: 10.4230 - mean\_absolute\_error: 2.4604 769/4840 [===>..........................] - ETA: 3s - loss: 10.4561 - mean\_absolute\_error: 2.4629 822/4840 [====>.........................] - ETA: 3s - loss: 10.4627 - mean\_absolute\_error: 2.4622 880/4840 [====>.........................] - ETA: 3s - loss: 10.4599 - mean\_absolute\_error: 2.4598 938/4840 [====>.........................] - ETA: 3s - loss: 10.4845 - mean\_absolute\_error: 2.4650 994/4840 [=====>........................] - ETA: 3s - loss: 10.4334 - mean\_absolute\_error: 2.45851052/4840 [=====>........................] - ETA: 3s - loss: 10.4239 - mean\_absolute\_error: 2.45651109/4840 [=====>........................] - ETA: 3s - loss: 10.4483 - mean\_absolute\_error: 2.46011168/4840 [======>.......................] - ETA: 3s - loss: 10.4470 - mean\_absolute\_error: 2.46121224/4840 [======>.......................] - ETA: 3s - loss: 10.4464 - mean\_absolute\_error: 2.46111283/4840 [======>.......................] - ETA: 3s - loss: 10.4388 - mean\_absolute\_error: 2.46041341/4840 [=======>......................] - ETA: 3s - loss: 10.4211 - mean\_absolute\_error: 2.45811401/4840 [=======>......................] - ETA: 3s - loss: 10.4415 - mean\_absolute\_error: 2.46061459/4840 [========>.....................] - ETA: 3s - loss: 10.4502 - mean\_absolute\_error: 2.46131517/4840 [========>.....................] - ETA: 2s - loss: 10.4567 - mean\_absolute\_error: 2.46241575/4840 [========>.....................] - ETA: 2s - loss: 10.4312 - mean\_absolute\_error: 2.45811631/4840 [=========>....................] - ETA: 2s - loss: 10.4407 - mean\_absolute\_error: 2.45911688/4840 [=========>....................] - ETA: 2s - loss: 10.4196 - mean\_absolute\_error: 2.45631743/4840 [=========>....................] - ETA: 2s - loss: 10.4182 - mean\_absolute\_error: 2.45581795/4840 [==========>...................] - ETA: 2s - loss: 10.4156 - mean\_absolute\_error: 2.45481854/4840 [==========>...................] - ETA: 2s - loss: 10.4150 - mean\_absolute\_error: 2.45491912/4840 [==========>...................] - ETA: 2s - loss: 10.4115 - mean\_absolute\_error: 2.45481970/4840 [===========>..................] - ETA: 2s - loss: 10.4301 - mean\_absolute\_error: 2.45772021/4840 [===========>..................] - ETA: 2s - loss: 10.4479 - mean\_absolute\_error: 2.45952065/4840 [===========>..................] - ETA: 2s - loss: 10.4538 - mean\_absolute\_error: 2.46062111/4840 [============>.................] - ETA: 2s - loss: 10.4526 - mean\_absolute\_error: 2.46062161/4840 [============>.................] - ETA: 2s - loss: 10.4482 - mean\_absolute\_error: 2.46022216/4840 [============>.................] - ETA: 2s - loss: 10.4464 - mean\_absolute\_error: 2.45952273/4840 [=============>................] - ETA: 2s - loss: 10.4587 - mean\_absolute\_error: 2.46052327/4840 [=============>................] - ETA: 2s - loss: 10.4572 - mean\_absolute\_error: 2.46072385/4840 [=============>................] - ETA: 2s - loss: 10.4493 - mean\_absolute\_error: 2.45962443/4840 [==============>...............] - ETA: 2s - loss: 10.4437 - mean\_absolute\_error: 2.45862501/4840 [==============>...............] - ETA: 2s - loss: 10.4449 - mean\_absolute\_error: 2.45922560/4840 [==============>...............] - ETA: 2s - loss: 10.4391 - mean\_absolute\_error: 2.45792617/4840 [===============>..............] - ETA: 2s - loss: 10.4474 - mean\_absolute\_error: 2.45902675/4840 [===============>..............] - ETA: 1s - loss: 10.4548 - mean\_absolute\_error: 2.46002735/4840 [===============>..............] - ETA: 1s - loss: 10.4576 - mean\_absolute\_error: 2.46002795/4840 [================>.............] - ETA: 1s - loss: 10.4687 - mean\_absolute\_error: 2.46092853/4840 [================>.............] - ETA: 1s - loss: 10.4761 - mean\_absolute\_error: 2.46242906/4840 [=================>............] - ETA: 1s - loss: 10.4719 - mean\_absolute\_error: 2.46202961/4840 [=================>............] - ETA: 1s - loss: 10.4767 - mean\_absolute\_error: 2.46193016/4840 [=================>............] - ETA: 1s - loss: 10.4777 - mean\_absolute\_error: 2.46183072/4840 [==================>...........] - ETA: 1s - loss: 10.4821 - mean\_absolute\_error: 2.46233128/4840 [==================>...........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.46263185/4840 [==================>...........] - ETA: 1s - loss: 10.4881 - mean\_absolute\_error: 2.46303241/4840 [===================>..........] - ETA: 1s - loss: 10.4815 - mean\_absolute\_error: 2.46283300/4840 [===================>..........] - ETA: 1s - loss: 10.4808 - mean\_absolute\_error: 2.46273358/4840 [===================>..........] - ETA: 1s - loss: 10.4829 - mean\_absolute\_error: 2.46223416/4840 [====================>.........] - ETA: 1s - loss: 10.4852 - mean\_absolute\_error: 2.46263473/4840 [====================>.........] - ETA: 1s - loss: 10.4809 - mean\_absolute\_error: 2.46203531/4840 [====================>.........] - ETA: 1s - loss: 10.4739 - mean\_absolute\_error: 2.46173589/4840 [=====================>........] - ETA: 1s - loss: 10.4818 - mean\_absolute\_error: 2.46223649/4840 [=====================>........] - ETA: 1s - loss: 10.4889 - mean\_absolute\_error: 2.46333709/4840 [=====================>........] - ETA: 1s - loss: 10.4934 - mean\_absolute\_error: 2.46393767/4840 [======================>.......] - ETA: 0s - loss: 10.5005 - mean\_absolute\_error: 2.46453825/4840 [======================>.......] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46543884/4840 [=======================>......] - ETA: 0s - loss: 10.5144 - mean\_absolute\_error: 2.46643944/4840 [=======================>......] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46504001/4840 [=======================>......] - ETA: 0s - loss: 10.5180 - mean\_absolute\_error: 2.46624058/4840 [========================>.....] - ETA: 0s - loss: 10.5158 - mean\_absolute\_error: 2.46534117/4840 [========================>.....] - ETA: 0s - loss: 10.5152 - mean\_absolute\_error: 2.46524176/4840 [========================>.....] - ETA: 0s - loss: 10.5242 - mean\_absolute\_error: 2.46614236/4840 [=========================>....] - ETA: 0s - loss: 10.5322 - mean\_absolute\_error: 2.46704295/4840 [=========================>....] - ETA: 0s - loss: 10.5231 - mean\_absolute\_error: 2.46614354/4840 [=========================>....] - ETA: 0s - loss: 10.5294 - mean\_absolute\_error: 2.46704411/4840 [==========================>...] - ETA: 0s - loss: 10.5449 - mean\_absolute\_error: 2.46924470/4840 [==========================>...] - ETA: 0s - loss: 10.5420 - mean\_absolute\_error: 2.46904528/4840 [===========================>..] - ETA: 0s - loss: 10.5434 - mean\_absolute\_error: 2.46904587/4840 [===========================>..] - ETA: 0s - loss: 10.5381 - mean\_absolute\_error: 2.46834646/4840 [===========================>..] - ETA: 0s - loss: 10.5406 - mean\_absolute\_error: 2.46894706/4840 [============================>.] - ETA: 0s - loss: 10.5331 - mean\_absolute\_error: 2.46784765/4840 [============================>.] - ETA: 0s - loss: 10.5356 - mean\_absolute\_error: 2.46834824/4840 [============================>.] - ETA: 0s - loss: 10.5345 - mean\_absolute\_error: 2.46854840/4840 [==============================] - 5s 930us/step - loss: 10.5332 - mean\_absolute\_error: 2.4683 - val\_loss: 11.4629 - val\_mean\_absolute\_error: 2.5808  
Epoch 28/100  
 1/4840 [..............................] - ETA: 4s - loss: 9.8360 - mean\_absolute\_error: 2.4006 60/4840 [..............................] - ETA: 4s - loss: 10.4433 - mean\_absolute\_error: 2.4573 120/4840 [..............................] - ETA: 4s - loss: 10.4380 - mean\_absolute\_error: 2.4658 180/4840 [>.............................] - ETA: 3s - loss: 10.3820 - mean\_absolute\_error: 2.4554 238/4840 [>.............................] - ETA: 3s - loss: 10.3879 - mean\_absolute\_error: 2.4513 296/4840 [>.............................] - ETA: 3s - loss: 10.4221 - mean\_absolute\_error: 2.4560 355/4840 [=>............................] - ETA: 3s - loss: 10.3846 - mean\_absolute\_error: 2.4499 415/4840 [=>............................] - ETA: 3s - loss: 10.3651 - mean\_absolute\_error: 2.4470 470/4840 [=>............................] - ETA: 3s - loss: 10.4038 - mean\_absolute\_error: 2.4517 528/4840 [==>...........................] - ETA: 3s - loss: 10.3376 - mean\_absolute\_error: 2.4442 587/4840 [==>...........................] - ETA: 3s - loss: 10.3565 - mean\_absolute\_error: 2.4451 645/4840 [==>...........................] - ETA: 3s - loss: 10.3966 - mean\_absolute\_error: 2.4526 703/4840 [===>..........................] - ETA: 3s - loss: 10.3811 - mean\_absolute\_error: 2.4509 761/4840 [===>..........................] - ETA: 3s - loss: 10.3687 - mean\_absolute\_error: 2.4476 819/4840 [====>.........................] - ETA: 3s - loss: 10.3540 - mean\_absolute\_error: 2.4455 878/4840 [====>.........................] - ETA: 3s - loss: 10.3151 - mean\_absolute\_error: 2.4407 937/4840 [====>.........................] - ETA: 3s - loss: 10.3299 - mean\_absolute\_error: 2.4433 994/4840 [=====>........................] - ETA: 3s - loss: 10.3052 - mean\_absolute\_error: 2.44071051/4840 [=====>........................] - ETA: 3s - loss: 10.2736 - mean\_absolute\_error: 2.43581107/4840 [=====>........................] - ETA: 3s - loss: 10.2912 - mean\_absolute\_error: 2.43881163/4840 [======>.......................] - ETA: 3s - loss: 10.2797 - mean\_absolute\_error: 2.43651221/4840 [======>.......................] - ETA: 3s - loss: 10.2892 - mean\_absolute\_error: 2.43551277/4840 [======>.......................] - ETA: 3s - loss: 10.3121 - mean\_absolute\_error: 2.43831336/4840 [=======>......................] - ETA: 3s - loss: 10.3476 - mean\_absolute\_error: 2.44391393/4840 [=======>......................] - ETA: 2s - loss: 10.3375 - mean\_absolute\_error: 2.44231451/4840 [=======>......................] - ETA: 2s - loss: 10.3349 - mean\_absolute\_error: 2.44191509/4840 [========>.....................] - ETA: 2s - loss: 10.3324 - mean\_absolute\_error: 2.44131568/4840 [========>.....................] - ETA: 2s - loss: 10.3296 - mean\_absolute\_error: 2.44121625/4840 [=========>....................] - ETA: 2s - loss: 10.3362 - mean\_absolute\_error: 2.44341683/4840 [=========>....................] - ETA: 2s - loss: 10.3561 - mean\_absolute\_error: 2.44551741/4840 [=========>....................] - ETA: 2s - loss: 10.3679 - mean\_absolute\_error: 2.44681800/4840 [==========>...................] - ETA: 2s - loss: 10.3741 - mean\_absolute\_error: 2.44741859/4840 [==========>...................] - ETA: 2s - loss: 10.3650 - mean\_absolute\_error: 2.44581918/4840 [==========>...................] - ETA: 2s - loss: 10.3985 - mean\_absolute\_error: 2.44991976/4840 [===========>..................] - ETA: 2s - loss: 10.4004 - mean\_absolute\_error: 2.45042036/4840 [===========>..................] - ETA: 2s - loss: 10.3895 - mean\_absolute\_error: 2.44962095/4840 [===========>..................] - ETA: 2s - loss: 10.3866 - mean\_absolute\_error: 2.44932154/4840 [============>.................] - ETA: 2s - loss: 10.4083 - mean\_absolute\_error: 2.45262212/4840 [============>.................] - ETA: 2s - loss: 10.4114 - mean\_absolute\_error: 2.45232271/4840 [=============>................] - ETA: 2s - loss: 10.4021 - mean\_absolute\_error: 2.45112331/4840 [=============>................] - ETA: 2s - loss: 10.4115 - mean\_absolute\_error: 2.45212390/4840 [=============>................] - ETA: 2s - loss: 10.4128 - mean\_absolute\_error: 2.45212448/4840 [==============>...............] - ETA: 2s - loss: 10.4266 - mean\_absolute\_error: 2.45372509/4840 [==============>...............] - ETA: 2s - loss: 10.4344 - mean\_absolute\_error: 2.45432567/4840 [==============>...............] - ETA: 1s - loss: 10.4413 - mean\_absolute\_error: 2.45552626/4840 [===============>..............] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45732685/4840 [===============>..............] - ETA: 1s - loss: 10.4553 - mean\_absolute\_error: 2.45732742/4840 [===============>..............] - ETA: 1s - loss: 10.4603 - mean\_absolute\_error: 2.45782796/4840 [================>.............] - ETA: 1s - loss: 10.4594 - mean\_absolute\_error: 2.45752851/4840 [================>.............] - ETA: 1s - loss: 10.4585 - mean\_absolute\_error: 2.45732907/4840 [=================>............] - ETA: 1s - loss: 10.4639 - mean\_absolute\_error: 2.45852965/4840 [=================>............] - ETA: 1s - loss: 10.4686 - mean\_absolute\_error: 2.45863023/4840 [=================>............] - ETA: 1s - loss: 10.4718 - mean\_absolute\_error: 2.45913082/4840 [==================>...........] - ETA: 1s - loss: 10.4698 - mean\_absolute\_error: 2.45903142/4840 [==================>...........] - ETA: 1s - loss: 10.4727 - mean\_absolute\_error: 2.45913200/4840 [==================>...........] - ETA: 1s - loss: 10.4757 - mean\_absolute\_error: 2.45933259/4840 [===================>..........] - ETA: 1s - loss: 10.4900 - mean\_absolute\_error: 2.46113319/4840 [===================>..........] - ETA: 1s - loss: 10.5020 - mean\_absolute\_error: 2.46273377/4840 [===================>..........] - ETA: 1s - loss: 10.4998 - mean\_absolute\_error: 2.46243436/4840 [====================>.........] - ETA: 1s - loss: 10.4969 - mean\_absolute\_error: 2.46203496/4840 [====================>.........] - ETA: 1s - loss: 10.5021 - mean\_absolute\_error: 2.46303556/4840 [=====================>........] - ETA: 1s - loss: 10.4972 - mean\_absolute\_error: 2.46243612/4840 [=====================>........] - ETA: 1s - loss: 10.5016 - mean\_absolute\_error: 2.46323671/4840 [=====================>........] - ETA: 1s - loss: 10.5075 - mean\_absolute\_error: 2.46433728/4840 [======================>.......] - ETA: 0s - loss: 10.5088 - mean\_absolute\_error: 2.46463786/4840 [======================>.......] - ETA: 0s - loss: 10.5087 - mean\_absolute\_error: 2.46473842/4840 [======================>.......] - ETA: 0s - loss: 10.5014 - mean\_absolute\_error: 2.46413892/4840 [=======================>......] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46413941/4840 [=======================>......] - ETA: 0s - loss: 10.5084 - mean\_absolute\_error: 2.46523995/4840 [=======================>......] - ETA: 0s - loss: 10.5096 - mean\_absolute\_error: 2.46524050/4840 [========================>.....] - ETA: 0s - loss: 10.5020 - mean\_absolute\_error: 2.46424104/4840 [========================>.....] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46364158/4840 [========================>.....] - ETA: 0s - loss: 10.5033 - mean\_absolute\_error: 2.46404211/4840 [=========================>....] - ETA: 0s - loss: 10.5038 - mean\_absolute\_error: 2.46434266/4840 [=========================>....] - ETA: 0s - loss: 10.5010 - mean\_absolute\_error: 2.46394323/4840 [=========================>....] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46454379/4840 [==========================>...] - ETA: 0s - loss: 10.5075 - mean\_absolute\_error: 2.46534437/4840 [==========================>...] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46504496/4840 [==========================>...] - ETA: 0s - loss: 10.5147 - mean\_absolute\_error: 2.46594555/4840 [===========================>..] - ETA: 0s - loss: 10.5181 - mean\_absolute\_error: 2.46654613/4840 [===========================>..] - ETA: 0s - loss: 10.5183 - mean\_absolute\_error: 2.46644673/4840 [===========================>..] - ETA: 0s - loss: 10.5203 - mean\_absolute\_error: 2.46674733/4840 [============================>.] - ETA: 0s - loss: 10.5225 - mean\_absolute\_error: 2.46694794/4840 [============================>.] - ETA: 0s - loss: 10.5273 - mean\_absolute\_error: 2.46744840/4840 [==============================] - 4s 914us/step - loss: 10.5275 - mean\_absolute\_error: 2.4675 - val\_loss: 11.4607 - val\_mean\_absolute\_error: 2.5804  
Epoch 29/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.2862 - mean\_absolute\_error: 2.1409 60/4840 [..............................] - ETA: 4s - loss: 10.7511 - mean\_absolute\_error: 2.5019 121/4840 [..............................] - ETA: 3s - loss: 10.6985 - mean\_absolute\_error: 2.5006 180/4840 [>.............................] - ETA: 3s - loss: 10.6187 - mean\_absolute\_error: 2.4796 239/4840 [>.............................] - ETA: 3s - loss: 10.5708 - mean\_absolute\_error: 2.4795 296/4840 [>.............................] - ETA: 3s - loss: 10.5052 - mean\_absolute\_error: 2.4707 356/4840 [=>............................] - ETA: 3s - loss: 10.4795 - mean\_absolute\_error: 2.4645 416/4840 [=>............................] - ETA: 3s - loss: 10.4821 - mean\_absolute\_error: 2.4645 476/4840 [=>............................] - ETA: 3s - loss: 10.4868 - mean\_absolute\_error: 2.4672 533/4840 [==>...........................] - ETA: 3s - loss: 10.4405 - mean\_absolute\_error: 2.4617 593/4840 [==>...........................] - ETA: 3s - loss: 10.4323 - mean\_absolute\_error: 2.4616 655/4840 [===>..........................] - ETA: 3s - loss: 10.4361 - mean\_absolute\_error: 2.4641 716/4840 [===>..........................] - ETA: 3s - loss: 10.4539 - mean\_absolute\_error: 2.4644 774/4840 [===>..........................] - ETA: 3s - loss: 10.4735 - mean\_absolute\_error: 2.4674 831/4840 [====>.........................] - ETA: 3s - loss: 10.4422 - mean\_absolute\_error: 2.4632 891/4840 [====>.........................] - ETA: 3s - loss: 10.4128 - mean\_absolute\_error: 2.4583 951/4840 [====>.........................] - ETA: 3s - loss: 10.4005 - mean\_absolute\_error: 2.45691011/4840 [=====>........................] - ETA: 3s - loss: 10.4156 - mean\_absolute\_error: 2.45711069/4840 [=====>........................] - ETA: 3s - loss: 10.3914 - mean\_absolute\_error: 2.45241127/4840 [=====>........................] - ETA: 3s - loss: 10.3820 - mean\_absolute\_error: 2.45001184/4840 [======>.......................] - ETA: 3s - loss: 10.4050 - mean\_absolute\_error: 2.45281243/4840 [======>.......................] - ETA: 3s - loss: 10.4156 - mean\_absolute\_error: 2.45511301/4840 [=======>......................] - ETA: 3s - loss: 10.4094 - mean\_absolute\_error: 2.45421362/4840 [=======>......................] - ETA: 2s - loss: 10.4272 - mean\_absolute\_error: 2.45611419/4840 [=======>......................] - ETA: 2s - loss: 10.4735 - mean\_absolute\_error: 2.46211477/4840 [========>.....................] - ETA: 2s - loss: 10.4779 - mean\_absolute\_error: 2.46301537/4840 [========>.....................] - ETA: 2s - loss: 10.4891 - mean\_absolute\_error: 2.46551596/4840 [========>.....................] - ETA: 2s - loss: 10.5015 - mean\_absolute\_error: 2.46751652/4840 [=========>....................] - ETA: 2s - loss: 10.4840 - mean\_absolute\_error: 2.46521708/4840 [=========>....................] - ETA: 2s - loss: 10.4833 - mean\_absolute\_error: 2.46431766/4840 [=========>....................] - ETA: 2s - loss: 10.4981 - mean\_absolute\_error: 2.46621824/4840 [==========>...................] - ETA: 2s - loss: 10.5071 - mean\_absolute\_error: 2.46851882/4840 [==========>...................] - ETA: 2s - loss: 10.5003 - mean\_absolute\_error: 2.46761940/4840 [===========>..................] - ETA: 2s - loss: 10.5024 - mean\_absolute\_error: 2.46771999/4840 [===========>..................] - ETA: 2s - loss: 10.5034 - mean\_absolute\_error: 2.46802056/4840 [===========>..................] - ETA: 2s - loss: 10.5006 - mean\_absolute\_error: 2.46732114/4840 [============>.................] - ETA: 2s - loss: 10.4966 - mean\_absolute\_error: 2.46632172/4840 [============>.................] - ETA: 2s - loss: 10.4875 - mean\_absolute\_error: 2.46492232/4840 [============>.................] - ETA: 2s - loss: 10.4931 - mean\_absolute\_error: 2.46532289/4840 [=============>................] - ETA: 2s - loss: 10.4770 - mean\_absolute\_error: 2.46342347/4840 [=============>................] - ETA: 2s - loss: 10.4855 - mean\_absolute\_error: 2.46452404/4840 [=============>................] - ETA: 2s - loss: 10.4947 - mean\_absolute\_error: 2.46522463/4840 [==============>...............] - ETA: 2s - loss: 10.4890 - mean\_absolute\_error: 2.46422523/4840 [==============>...............] - ETA: 1s - loss: 10.4969 - mean\_absolute\_error: 2.46512583/4840 [===============>..............] - ETA: 1s - loss: 10.5030 - mean\_absolute\_error: 2.46562642/4840 [===============>..............] - ETA: 1s - loss: 10.5064 - mean\_absolute\_error: 2.46612701/4840 [===============>..............] - ETA: 1s - loss: 10.5136 - mean\_absolute\_error: 2.46692760/4840 [================>.............] - ETA: 1s - loss: 10.5134 - mean\_absolute\_error: 2.46702818/4840 [================>.............] - ETA: 1s - loss: 10.5094 - mean\_absolute\_error: 2.46622877/4840 [================>.............] - ETA: 1s - loss: 10.5148 - mean\_absolute\_error: 2.46692935/4840 [=================>............] - ETA: 1s - loss: 10.5103 - mean\_absolute\_error: 2.46642993/4840 [=================>............] - ETA: 1s - loss: 10.5154 - mean\_absolute\_error: 2.46773054/4840 [=================>............] - ETA: 1s - loss: 10.5067 - mean\_absolute\_error: 2.46623110/4840 [==================>...........] - ETA: 1s - loss: 10.5077 - mean\_absolute\_error: 2.46643168/4840 [==================>...........] - ETA: 1s - loss: 10.5151 - mean\_absolute\_error: 2.46763226/4840 [==================>...........] - ETA: 1s - loss: 10.5096 - mean\_absolute\_error: 2.46683285/4840 [===================>..........] - ETA: 1s - loss: 10.5127 - mean\_absolute\_error: 2.46723346/4840 [===================>..........] - ETA: 1s - loss: 10.5054 - mean\_absolute\_error: 2.46623406/4840 [====================>.........] - ETA: 1s - loss: 10.5105 - mean\_absolute\_error: 2.46713462/4840 [====================>.........] - ETA: 1s - loss: 10.5156 - mean\_absolute\_error: 2.46763520/4840 [====================>.........] - ETA: 1s - loss: 10.5111 - mean\_absolute\_error: 2.46683580/4840 [=====================>........] - ETA: 1s - loss: 10.5110 - mean\_absolute\_error: 2.46673639/4840 [=====================>........] - ETA: 1s - loss: 10.5187 - mean\_absolute\_error: 2.46813699/4840 [=====================>........] - ETA: 0s - loss: 10.5264 - mean\_absolute\_error: 2.46933758/4840 [======================>.......] - ETA: 0s - loss: 10.5239 - mean\_absolute\_error: 2.46913816/4840 [======================>.......] - ETA: 0s - loss: 10.5326 - mean\_absolute\_error: 2.46983875/4840 [=======================>......] - ETA: 0s - loss: 10.5353 - mean\_absolute\_error: 2.46963934/4840 [=======================>......] - ETA: 0s - loss: 10.5354 - mean\_absolute\_error: 2.46963994/4840 [=======================>......] - ETA: 0s - loss: 10.5209 - mean\_absolute\_error: 2.46804054/4840 [========================>.....] - ETA: 0s - loss: 10.5271 - mean\_absolute\_error: 2.46854113/4840 [========================>.....] - ETA: 0s - loss: 10.5286 - mean\_absolute\_error: 2.46894171/4840 [========================>.....] - ETA: 0s - loss: 10.5272 - mean\_absolute\_error: 2.46914232/4840 [=========================>....] - ETA: 0s - loss: 10.5221 - mean\_absolute\_error: 2.46864292/4840 [=========================>....] - ETA: 0s - loss: 10.5211 - mean\_absolute\_error: 2.46844351/4840 [=========================>....] - ETA: 0s - loss: 10.5251 - mean\_absolute\_error: 2.46884408/4840 [==========================>...] - ETA: 0s - loss: 10.5256 - mean\_absolute\_error: 2.46864467/4840 [==========================>...] - ETA: 0s - loss: 10.5266 - mean\_absolute\_error: 2.46894526/4840 [===========================>..] - ETA: 0s - loss: 10.5257 - mean\_absolute\_error: 2.46894586/4840 [===========================>..] - ETA: 0s - loss: 10.5285 - mean\_absolute\_error: 2.46904642/4840 [===========================>..] - ETA: 0s - loss: 10.5317 - mean\_absolute\_error: 2.46914701/4840 [============================>.] - ETA: 0s - loss: 10.5272 - mean\_absolute\_error: 2.46804759/4840 [============================>.] - ETA: 0s - loss: 10.5224 - mean\_absolute\_error: 2.46754820/4840 [============================>.] - ETA: 0s - loss: 10.5239 - mean\_absolute\_error: 2.46784840/4840 [==============================] - 4s 901us/step - loss: 10.5227 - mean\_absolute\_error: 2.4678 - val\_loss: 11.4646 - val\_mean\_absolute\_error: 2.5804  
Epoch 30/100  
 1/4840 [..............................] - ETA: 4s - loss: 8.8979 - mean\_absolute\_error: 2.1906 58/4840 [..............................] - ETA: 4s - loss: 10.3739 - mean\_absolute\_error: 2.4530 120/4840 [..............................] - ETA: 4s - loss: 10.1740 - mean\_absolute\_error: 2.4257 179/4840 [>.............................] - ETA: 3s - loss: 10.1573 - mean\_absolute\_error: 2.4181 238/4840 [>.............................] - ETA: 3s - loss: 10.0599 - mean\_absolute\_error: 2.4044 298/4840 [>.............................] - ETA: 3s - loss: 9.9806 - mean\_absolute\_error: 2.3974 357/4840 [=>............................] - ETA: 3s - loss: 10.1212 - mean\_absolute\_error: 2.4118 414/4840 [=>............................] - ETA: 3s - loss: 10.0826 - mean\_absolute\_error: 2.4079 473/4840 [=>............................] - ETA: 3s - loss: 10.1784 - mean\_absolute\_error: 2.4186 531/4840 [==>...........................] - ETA: 3s - loss: 10.2450 - mean\_absolute\_error: 2.4271 591/4840 [==>...........................] - ETA: 3s - loss: 10.2645 - mean\_absolute\_error: 2.4285 650/4840 [===>..........................] - ETA: 3s - loss: 10.3499 - mean\_absolute\_error: 2.4384 706/4840 [===>..........................] - ETA: 3s - loss: 10.3720 - mean\_absolute\_error: 2.4416 763/4840 [===>..........................] - ETA: 3s - loss: 10.3773 - mean\_absolute\_error: 2.4420 820/4840 [====>.........................] - ETA: 3s - loss: 10.4237 - mean\_absolute\_error: 2.4486 878/4840 [====>.........................] - ETA: 3s - loss: 10.3715 - mean\_absolute\_error: 2.4427 937/4840 [====>.........................] - ETA: 3s - loss: 10.3911 - mean\_absolute\_error: 2.4475 997/4840 [=====>........................] - ETA: 3s - loss: 10.3862 - mean\_absolute\_error: 2.44861057/4840 [=====>........................] - ETA: 3s - loss: 10.3732 - mean\_absolute\_error: 2.44801116/4840 [=====>........................] - ETA: 3s - loss: 10.3792 - mean\_absolute\_error: 2.44841176/4840 [======>.......................] - ETA: 3s - loss: 10.3913 - mean\_absolute\_error: 2.44891235/4840 [======>.......................] - ETA: 3s - loss: 10.3920 - mean\_absolute\_error: 2.44851294/4840 [=======>......................] - ETA: 3s - loss: 10.3872 - mean\_absolute\_error: 2.44721353/4840 [=======>......................] - ETA: 2s - loss: 10.3820 - mean\_absolute\_error: 2.44651414/4840 [=======>......................] - ETA: 2s - loss: 10.4044 - mean\_absolute\_error: 2.45041474/4840 [========>.....................] - ETA: 2s - loss: 10.3896 - mean\_absolute\_error: 2.44821533/4840 [========>.....................] - ETA: 2s - loss: 10.3884 - mean\_absolute\_error: 2.44821592/4840 [========>.....................] - ETA: 2s - loss: 10.3825 - mean\_absolute\_error: 2.44621652/4840 [=========>....................] - ETA: 2s - loss: 10.3749 - mean\_absolute\_error: 2.44591713/4840 [=========>....................] - ETA: 2s - loss: 10.4018 - mean\_absolute\_error: 2.44841772/4840 [=========>....................] - ETA: 2s - loss: 10.3888 - mean\_absolute\_error: 2.44621832/4840 [==========>...................] - ETA: 2s - loss: 10.3981 - mean\_absolute\_error: 2.44671890/4840 [==========>...................] - ETA: 2s - loss: 10.3994 - mean\_absolute\_error: 2.44641949/4840 [===========>..................] - ETA: 2s - loss: 10.4087 - mean\_absolute\_error: 2.44862008/4840 [===========>..................] - ETA: 2s - loss: 10.4210 - mean\_absolute\_error: 2.45052068/4840 [===========>..................] - ETA: 2s - loss: 10.4274 - mean\_absolute\_error: 2.45072129/4840 [============>.................] - ETA: 2s - loss: 10.4307 - mean\_absolute\_error: 2.45152187/4840 [============>.................] - ETA: 2s - loss: 10.4416 - mean\_absolute\_error: 2.45362245/4840 [============>.................] - ETA: 2s - loss: 10.4458 - mean\_absolute\_error: 2.45462304/4840 [=============>................] - ETA: 2s - loss: 10.4359 - mean\_absolute\_error: 2.45372362/4840 [=============>................] - ETA: 2s - loss: 10.4181 - mean\_absolute\_error: 2.45172421/4840 [==============>...............] - ETA: 2s - loss: 10.4270 - mean\_absolute\_error: 2.45312479/4840 [==============>...............] - ETA: 2s - loss: 10.4362 - mean\_absolute\_error: 2.45422538/4840 [==============>...............] - ETA: 1s - loss: 10.4373 - mean\_absolute\_error: 2.45492598/4840 [===============>..............] - ETA: 1s - loss: 10.4592 - mean\_absolute\_error: 2.45752655/4840 [===============>..............] - ETA: 1s - loss: 10.4688 - mean\_absolute\_error: 2.45842711/4840 [===============>..............] - ETA: 1s - loss: 10.4699 - mean\_absolute\_error: 2.45832770/4840 [================>.............] - ETA: 1s - loss: 10.4775 - mean\_absolute\_error: 2.45932829/4840 [================>.............] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.45952889/4840 [================>.............] - ETA: 1s - loss: 10.4848 - mean\_absolute\_error: 2.46022948/4840 [=================>............] - ETA: 1s - loss: 10.5013 - mean\_absolute\_error: 2.46243007/4840 [=================>............] - ETA: 1s - loss: 10.4942 - mean\_absolute\_error: 2.46163063/4840 [=================>............] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46203121/4840 [==================>...........] - ETA: 1s - loss: 10.5028 - mean\_absolute\_error: 2.46353179/4840 [==================>...........] - ETA: 1s - loss: 10.4956 - mean\_absolute\_error: 2.46313237/4840 [===================>..........] - ETA: 1s - loss: 10.4958 - mean\_absolute\_error: 2.46293296/4840 [===================>..........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.46193356/4840 [===================>..........] - ETA: 1s - loss: 10.4902 - mean\_absolute\_error: 2.46233416/4840 [====================>.........] - ETA: 1s - loss: 10.4918 - mean\_absolute\_error: 2.46283476/4840 [====================>.........] - ETA: 1s - loss: 10.4854 - mean\_absolute\_error: 2.46193534/4840 [====================>.........] - ETA: 1s - loss: 10.4883 - mean\_absolute\_error: 2.46283595/4840 [=====================>........] - ETA: 1s - loss: 10.4901 - mean\_absolute\_error: 2.46253653/4840 [=====================>........] - ETA: 1s - loss: 10.4955 - mean\_absolute\_error: 2.46333712/4840 [======================>.......] - ETA: 0s - loss: 10.4953 - mean\_absolute\_error: 2.46313772/4840 [======================>.......] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.46353831/4840 [======================>.......] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46393891/4840 [=======================>......] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.46293950/4840 [=======================>......] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46364007/4840 [=======================>......] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46424065/4840 [========================>.....] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46454123/4840 [========================>.....] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46564180/4840 [========================>.....] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46474234/4840 [=========================>....] - ETA: 0s - loss: 10.5086 - mean\_absolute\_error: 2.46514292/4840 [=========================>....] - ETA: 0s - loss: 10.5074 - mean\_absolute\_error: 2.46474349/4840 [=========================>....] - ETA: 0s - loss: 10.5079 - mean\_absolute\_error: 2.46494406/4840 [==========================>...] - ETA: 0s - loss: 10.5046 - mean\_absolute\_error: 2.46494465/4840 [==========================>...] - ETA: 0s - loss: 10.5093 - mean\_absolute\_error: 2.46544523/4840 [===========================>..] - ETA: 0s - loss: 10.5120 - mean\_absolute\_error: 2.46544579/4840 [===========================>..] - ETA: 0s - loss: 10.5113 - mean\_absolute\_error: 2.46514637/4840 [===========================>..] - ETA: 0s - loss: 10.5134 - mean\_absolute\_error: 2.46594695/4840 [============================>.] - ETA: 0s - loss: 10.5175 - mean\_absolute\_error: 2.46634755/4840 [============================>.] - ETA: 0s - loss: 10.5195 - mean\_absolute\_error: 2.46624812/4840 [============================>.] - ETA: 0s - loss: 10.5198 - mean\_absolute\_error: 2.46654840/4840 [==============================] - 4s 901us/step - loss: 10.5201 - mean\_absolute\_error: 2.4666 - val\_loss: 11.4639 - val\_mean\_absolute\_error: 2.5805  
Epoch 31/100  
 1/4840 [..............................] - ETA: 4s - loss: 13.8058 - mean\_absolute\_error: 2.8583 60/4840 [..............................] - ETA: 4s - loss: 10.3865 - mean\_absolute\_error: 2.4338 119/4840 [..............................] - ETA: 4s - loss: 10.2141 - mean\_absolute\_error: 2.4223 180/4840 [>.............................] - ETA: 3s - loss: 10.2096 - mean\_absolute\_error: 2.4254 239/4840 [>.............................] - ETA: 3s - loss: 10.2383 - mean\_absolute\_error: 2.4282 296/4840 [>.............................] - ETA: 3s - loss: 10.3195 - mean\_absolute\_error: 2.4398 352/4840 [=>............................] - ETA: 3s - loss: 10.2637 - mean\_absolute\_error: 2.4379 410/4840 [=>............................] - ETA: 3s - loss: 10.2647 - mean\_absolute\_error: 2.4357 467/4840 [=>............................] - ETA: 3s - loss: 10.2682 - mean\_absolute\_error: 2.4365 528/4840 [==>...........................] - ETA: 3s - loss: 10.2957 - mean\_absolute\_error: 2.4383 587/4840 [==>...........................] - ETA: 3s - loss: 10.3244 - mean\_absolute\_error: 2.4414 649/4840 [===>..........................] - ETA: 3s - loss: 10.3227 - mean\_absolute\_error: 2.4412 707/4840 [===>..........................] - ETA: 3s - loss: 10.3614 - mean\_absolute\_error: 2.4488 767/4840 [===>..........................] - ETA: 3s - loss: 10.3566 - mean\_absolute\_error: 2.4488 826/4840 [====>.........................] - ETA: 3s - loss: 10.3908 - mean\_absolute\_error: 2.4521 886/4840 [====>.........................] - ETA: 3s - loss: 10.3917 - mean\_absolute\_error: 2.4526 945/4840 [====>.........................] - ETA: 3s - loss: 10.4116 - mean\_absolute\_error: 2.45431003/4840 [=====>........................] - ETA: 3s - loss: 10.4347 - mean\_absolute\_error: 2.45631062/4840 [=====>........................] - ETA: 3s - loss: 10.4331 - mean\_absolute\_error: 2.45411121/4840 [=====>........................] - ETA: 3s - loss: 10.4178 - mean\_absolute\_error: 2.45281182/4840 [======>.......................] - ETA: 3s - loss: 10.3966 - mean\_absolute\_error: 2.44971243/4840 [======>.......................] - ETA: 3s - loss: 10.3791 - mean\_absolute\_error: 2.44861303/4840 [=======>......................] - ETA: 3s - loss: 10.3851 - mean\_absolute\_error: 2.44861362/4840 [=======>......................] - ETA: 2s - loss: 10.3846 - mean\_absolute\_error: 2.44971424/4840 [=======>......................] - ETA: 2s - loss: 10.3965 - mean\_absolute\_error: 2.45101482/4840 [========>.....................] - ETA: 2s - loss: 10.4163 - mean\_absolute\_error: 2.45341541/4840 [========>.....................] - ETA: 2s - loss: 10.4292 - mean\_absolute\_error: 2.45561599/4840 [========>.....................] - ETA: 2s - loss: 10.4333 - mean\_absolute\_error: 2.45571658/4840 [=========>....................] - ETA: 2s - loss: 10.4369 - mean\_absolute\_error: 2.45561717/4840 [=========>....................] - ETA: 2s - loss: 10.4345 - mean\_absolute\_error: 2.45451778/4840 [==========>...................] - ETA: 2s - loss: 10.4350 - mean\_absolute\_error: 2.45441839/4840 [==========>...................] - ETA: 2s - loss: 10.4514 - mean\_absolute\_error: 2.45621899/4840 [==========>...................] - ETA: 2s - loss: 10.4622 - mean\_absolute\_error: 2.45811958/4840 [===========>..................] - ETA: 2s - loss: 10.4635 - mean\_absolute\_error: 2.45892018/4840 [===========>..................] - ETA: 2s - loss: 10.4541 - mean\_absolute\_error: 2.45732078/4840 [===========>..................] - ETA: 2s - loss: 10.4662 - mean\_absolute\_error: 2.45912138/4840 [============>.................] - ETA: 2s - loss: 10.4416 - mean\_absolute\_error: 2.45582198/4840 [============>.................] - ETA: 2s - loss: 10.4432 - mean\_absolute\_error: 2.45652257/4840 [============>.................] - ETA: 2s - loss: 10.4364 - mean\_absolute\_error: 2.45502313/4840 [=============>................] - ETA: 2s - loss: 10.4361 - mean\_absolute\_error: 2.45492373/4840 [=============>................] - ETA: 2s - loss: 10.4593 - mean\_absolute\_error: 2.45832434/4840 [==============>...............] - ETA: 2s - loss: 10.4722 - mean\_absolute\_error: 2.45912494/4840 [==============>...............] - ETA: 1s - loss: 10.4698 - mean\_absolute\_error: 2.45852552/4840 [==============>...............] - ETA: 1s - loss: 10.4650 - mean\_absolute\_error: 2.45802612/4840 [===============>..............] - ETA: 1s - loss: 10.4675 - mean\_absolute\_error: 2.45832669/4840 [===============>..............] - ETA: 1s - loss: 10.4739 - mean\_absolute\_error: 2.45932728/4840 [===============>..............] - ETA: 1s - loss: 10.4730 - mean\_absolute\_error: 2.45892786/4840 [================>.............] - ETA: 1s - loss: 10.4723 - mean\_absolute\_error: 2.45912845/4840 [================>.............] - ETA: 1s - loss: 10.4766 - mean\_absolute\_error: 2.45992905/4840 [=================>............] - ETA: 1s - loss: 10.4747 - mean\_absolute\_error: 2.46022963/4840 [=================>............] - ETA: 1s - loss: 10.4800 - mean\_absolute\_error: 2.46083022/4840 [=================>............] - ETA: 1s - loss: 10.4800 - mean\_absolute\_error: 2.46043083/4840 [==================>...........] - ETA: 1s - loss: 10.4891 - mean\_absolute\_error: 2.46173143/4840 [==================>...........] - ETA: 1s - loss: 10.4890 - mean\_absolute\_error: 2.46173199/4840 [==================>...........] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46243257/4840 [===================>..........] - ETA: 1s - loss: 10.4976 - mean\_absolute\_error: 2.46293316/4840 [===================>..........] - ETA: 1s - loss: 10.5097 - mean\_absolute\_error: 2.46433374/4840 [===================>..........] - ETA: 1s - loss: 10.5072 - mean\_absolute\_error: 2.46443432/4840 [====================>.........] - ETA: 1s - loss: 10.5065 - mean\_absolute\_error: 2.46423491/4840 [====================>.........] - ETA: 1s - loss: 10.4987 - mean\_absolute\_error: 2.46343552/4840 [=====================>........] - ETA: 1s - loss: 10.5022 - mean\_absolute\_error: 2.46363611/4840 [=====================>........] - ETA: 1s - loss: 10.5005 - mean\_absolute\_error: 2.46393670/4840 [=====================>........] - ETA: 0s - loss: 10.5049 - mean\_absolute\_error: 2.46423731/4840 [======================>.......] - ETA: 0s - loss: 10.4980 - mean\_absolute\_error: 2.46333792/4840 [======================>.......] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46273848/4840 [======================>.......] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46353906/4840 [=======================>......] - ETA: 0s - loss: 10.4864 - mean\_absolute\_error: 2.46193965/4840 [=======================>......] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.46314022/4840 [=======================>......] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46404080/4840 [========================>.....] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46494139/4840 [========================>.....] - ETA: 0s - loss: 10.5190 - mean\_absolute\_error: 2.46614197/4840 [=========================>....] - ETA: 0s - loss: 10.5284 - mean\_absolute\_error: 2.46734256/4840 [=========================>....] - ETA: 0s - loss: 10.5313 - mean\_absolute\_error: 2.46754316/4840 [=========================>....] - ETA: 0s - loss: 10.5307 - mean\_absolute\_error: 2.46714373/4840 [==========================>...] - ETA: 0s - loss: 10.5234 - mean\_absolute\_error: 2.46604432/4840 [==========================>...] - ETA: 0s - loss: 10.5216 - mean\_absolute\_error: 2.46574492/4840 [==========================>...] - ETA: 0s - loss: 10.5157 - mean\_absolute\_error: 2.46484552/4840 [===========================>..] - ETA: 0s - loss: 10.5174 - mean\_absolute\_error: 2.46514609/4840 [===========================>..] - ETA: 0s - loss: 10.5129 - mean\_absolute\_error: 2.46474668/4840 [===========================>..] - ETA: 0s - loss: 10.5148 - mean\_absolute\_error: 2.46494725/4840 [============================>.] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46384783/4840 [============================>.] - ETA: 0s - loss: 10.5131 - mean\_absolute\_error: 2.46494840/4840 [==============================] - 4s 895us/step - loss: 10.5171 - mean\_absolute\_error: 2.4653 - val\_loss: 11.4695 - val\_mean\_absolute\_error: 2.5807  
Epoch 32/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.9835 - mean\_absolute\_error: 2.0272 61/4840 [..............................] - ETA: 4s - loss: 10.9831 - mean\_absolute\_error: 2.5078 119/4840 [..............................] - ETA: 4s - loss: 10.9029 - mean\_absolute\_error: 2.5080 178/4840 [>.............................] - ETA: 3s - loss: 10.8307 - mean\_absolute\_error: 2.5025 236/4840 [>.............................] - ETA: 3s - loss: 10.7925 - mean\_absolute\_error: 2.4965 296/4840 [>.............................] - ETA: 3s - loss: 10.5993 - mean\_absolute\_error: 2.4734 354/4840 [=>............................] - ETA: 3s - loss: 10.6661 - mean\_absolute\_error: 2.4843 412/4840 [=>............................] - ETA: 3s - loss: 10.6544 - mean\_absolute\_error: 2.4813 470/4840 [=>............................] - ETA: 3s - loss: 10.6415 - mean\_absolute\_error: 2.4809 529/4840 [==>...........................] - ETA: 3s - loss: 10.5847 - mean\_absolute\_error: 2.4794 588/4840 [==>...........................] - ETA: 3s - loss: 10.5377 - mean\_absolute\_error: 2.4705 647/4840 [===>..........................] - ETA: 3s - loss: 10.5035 - mean\_absolute\_error: 2.4674 705/4840 [===>..........................] - ETA: 3s - loss: 10.5185 - mean\_absolute\_error: 2.4678 764/4840 [===>..........................] - ETA: 3s - loss: 10.4863 - mean\_absolute\_error: 2.4650 825/4840 [====>.........................] - ETA: 3s - loss: 10.4984 - mean\_absolute\_error: 2.4657 885/4840 [====>.........................] - ETA: 3s - loss: 10.4729 - mean\_absolute\_error: 2.4628 942/4840 [====>.........................] - ETA: 3s - loss: 10.5016 - mean\_absolute\_error: 2.46691000/4840 [=====>........................] - ETA: 3s - loss: 10.4965 - mean\_absolute\_error: 2.46671055/4840 [=====>........................] - ETA: 3s - loss: 10.5155 - mean\_absolute\_error: 2.47061105/4840 [=====>........................] - ETA: 3s - loss: 10.4893 - mean\_absolute\_error: 2.46661144/4840 [======>.......................] - ETA: 3s - loss: 10.5090 - mean\_absolute\_error: 2.46941191/4840 [======>.......................] - ETA: 3s - loss: 10.4978 - mean\_absolute\_error: 2.46811245/4840 [======>.......................] - ETA: 3s - loss: 10.4951 - mean\_absolute\_error: 2.46611301/4840 [=======>......................] - ETA: 3s - loss: 10.4690 - mean\_absolute\_error: 2.46201357/4840 [=======>......................] - ETA: 3s - loss: 10.4693 - mean\_absolute\_error: 2.46151414/4840 [=======>......................] - ETA: 3s - loss: 10.4902 - mean\_absolute\_error: 2.46451473/4840 [========>.....................] - ETA: 2s - loss: 10.4957 - mean\_absolute\_error: 2.46541523/4840 [========>.....................] - ETA: 2s - loss: 10.4930 - mean\_absolute\_error: 2.46421559/4840 [========>.....................] - ETA: 2s - loss: 10.4995 - mean\_absolute\_error: 2.46531612/4840 [========>.....................] - ETA: 2s - loss: 10.5063 - mean\_absolute\_error: 2.46521667/4840 [=========>....................] - ETA: 2s - loss: 10.4929 - mean\_absolute\_error: 2.46411723/4840 [=========>....................] - ETA: 2s - loss: 10.4818 - mean\_absolute\_error: 2.46301780/4840 [==========>...................] - ETA: 2s - loss: 10.4906 - mean\_absolute\_error: 2.46331838/4840 [==========>...................] - ETA: 2s - loss: 10.4842 - mean\_absolute\_error: 2.46221896/4840 [==========>...................] - ETA: 2s - loss: 10.4728 - mean\_absolute\_error: 2.46091955/4840 [===========>..................] - ETA: 2s - loss: 10.4748 - mean\_absolute\_error: 2.46092012/4840 [===========>..................] - ETA: 2s - loss: 10.4820 - mean\_absolute\_error: 2.46242071/4840 [===========>..................] - ETA: 2s - loss: 10.4827 - mean\_absolute\_error: 2.46172126/4840 [============>.................] - ETA: 2s - loss: 10.4896 - mean\_absolute\_error: 2.46342185/4840 [============>.................] - ETA: 2s - loss: 10.4950 - mean\_absolute\_error: 2.46442243/4840 [============>.................] - ETA: 2s - loss: 10.5108 - mean\_absolute\_error: 2.46752301/4840 [=============>................] - ETA: 2s - loss: 10.5213 - mean\_absolute\_error: 2.46912361/4840 [=============>................] - ETA: 2s - loss: 10.5274 - mean\_absolute\_error: 2.46992420/4840 [==============>...............] - ETA: 2s - loss: 10.5149 - mean\_absolute\_error: 2.46802481/4840 [==============>...............] - ETA: 2s - loss: 10.5086 - mean\_absolute\_error: 2.46682540/4840 [==============>...............] - ETA: 2s - loss: 10.5065 - mean\_absolute\_error: 2.46652600/4840 [===============>..............] - ETA: 1s - loss: 10.5035 - mean\_absolute\_error: 2.46682659/4840 [===============>..............] - ETA: 1s - loss: 10.4979 - mean\_absolute\_error: 2.46612716/4840 [===============>..............] - ETA: 1s - loss: 10.5044 - mean\_absolute\_error: 2.46642771/4840 [================>.............] - ETA: 1s - loss: 10.5005 - mean\_absolute\_error: 2.46592830/4840 [================>.............] - ETA: 1s - loss: 10.4923 - mean\_absolute\_error: 2.46432877/4840 [================>.............] - ETA: 1s - loss: 10.4810 - mean\_absolute\_error: 2.46302911/4840 [=================>............] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.46282943/4840 [=================>............] - ETA: 1s - loss: 10.4749 - mean\_absolute\_error: 2.46202983/4840 [=================>............] - ETA: 1s - loss: 10.4701 - mean\_absolute\_error: 2.46123029/4840 [=================>............] - ETA: 1s - loss: 10.4774 - mean\_absolute\_error: 2.46183074/4840 [==================>...........] - ETA: 1s - loss: 10.4697 - mean\_absolute\_error: 2.46093121/4840 [==================>...........] - ETA: 1s - loss: 10.4725 - mean\_absolute\_error: 2.46113164/4840 [==================>...........] - ETA: 1s - loss: 10.4725 - mean\_absolute\_error: 2.46143210/4840 [==================>...........] - ETA: 1s - loss: 10.4761 - mean\_absolute\_error: 2.46223257/4840 [===================>..........] - ETA: 1s - loss: 10.4774 - mean\_absolute\_error: 2.46193307/4840 [===================>..........] - ETA: 1s - loss: 10.4881 - mean\_absolute\_error: 2.46323359/4840 [===================>..........] - ETA: 1s - loss: 10.4741 - mean\_absolute\_error: 2.46153402/4840 [====================>.........] - ETA: 1s - loss: 10.4795 - mean\_absolute\_error: 2.46253441/4840 [====================>.........] - ETA: 1s - loss: 10.4774 - mean\_absolute\_error: 2.46193484/4840 [====================>.........] - ETA: 1s - loss: 10.4794 - mean\_absolute\_error: 2.46183524/4840 [====================>.........] - ETA: 1s - loss: 10.4802 - mean\_absolute\_error: 2.46203564/4840 [=====================>........] - ETA: 1s - loss: 10.4761 - mean\_absolute\_error: 2.46153604/4840 [=====================>........] - ETA: 1s - loss: 10.4735 - mean\_absolute\_error: 2.46133651/4840 [=====================>........] - ETA: 1s - loss: 10.4734 - mean\_absolute\_error: 2.46123697/4840 [=====================>........] - ETA: 1s - loss: 10.4787 - mean\_absolute\_error: 2.46193743/4840 [======================>.......] - ETA: 1s - loss: 10.4745 - mean\_absolute\_error: 2.46103787/4840 [======================>.......] - ETA: 1s - loss: 10.4851 - mean\_absolute\_error: 2.46223832/4840 [======================>.......] - ETA: 0s - loss: 10.4922 - mean\_absolute\_error: 2.46273878/4840 [=======================>......] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.46153928/4840 [=======================>......] - ETA: 0s - loss: 10.4784 - mean\_absolute\_error: 2.46093974/4840 [=======================>......] - ETA: 0s - loss: 10.4858 - mean\_absolute\_error: 2.46174022/4840 [=======================>......] - ETA: 0s - loss: 10.4949 - mean\_absolute\_error: 2.46274068/4840 [========================>.....] - ETA: 0s - loss: 10.4961 - mean\_absolute\_error: 2.46274117/4840 [========================>.....] - ETA: 0s - loss: 10.4901 - mean\_absolute\_error: 2.46194171/4840 [========================>.....] - ETA: 0s - loss: 10.4973 - mean\_absolute\_error: 2.46264224/4840 [=========================>....] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.46294279/4840 [=========================>....] - ETA: 0s - loss: 10.5081 - mean\_absolute\_error: 2.46404336/4840 [=========================>....] - ETA: 0s - loss: 10.5118 - mean\_absolute\_error: 2.46434394/4840 [==========================>...] - ETA: 0s - loss: 10.5107 - mean\_absolute\_error: 2.46424451/4840 [==========================>...] - ETA: 0s - loss: 10.5212 - mean\_absolute\_error: 2.46544508/4840 [==========================>...] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46524565/4840 [===========================>..] - ETA: 0s - loss: 10.5209 - mean\_absolute\_error: 2.46554622/4840 [===========================>..] - ETA: 0s - loss: 10.5151 - mean\_absolute\_error: 2.46464681/4840 [============================>.] - ETA: 0s - loss: 10.5121 - mean\_absolute\_error: 2.46414740/4840 [============================>.] - ETA: 0s - loss: 10.5076 - mean\_absolute\_error: 2.46384798/4840 [============================>.] - ETA: 0s - loss: 10.5083 - mean\_absolute\_error: 2.46404840/4840 [==============================] - 5s 998us/step - loss: 10.5152 - mean\_absolute\_error: 2.4652 - val\_loss: 11.4665 - val\_mean\_absolute\_error: 2.5805  
Epoch 33/100  
 1/4840 [..............................] - ETA: 4s - loss: 10.2251 - mean\_absolute\_error: 2.4715 60/4840 [..............................] - ETA: 4s - loss: 10.5538 - mean\_absolute\_error: 2.4449 117/4840 [..............................] - ETA: 4s - loss: 10.6094 - mean\_absolute\_error: 2.4691 175/4840 [>.............................] - ETA: 4s - loss: 10.5341 - mean\_absolute\_error: 2.4549 232/4840 [>.............................] - ETA: 4s - loss: 10.5694 - mean\_absolute\_error: 2.4604 290/4840 [>.............................] - ETA: 3s - loss: 10.4835 - mean\_absolute\_error: 2.4531 348/4840 [=>............................] - ETA: 3s - loss: 10.5103 - mean\_absolute\_error: 2.4660 406/4840 [=>............................] - ETA: 3s - loss: 10.6045 - mean\_absolute\_error: 2.4756 463/4840 [=>............................] - ETA: 3s - loss: 10.6571 - mean\_absolute\_error: 2.4858 521/4840 [==>...........................] - ETA: 3s - loss: 10.6290 - mean\_absolute\_error: 2.4801 580/4840 [==>...........................] - ETA: 3s - loss: 10.6543 - mean\_absolute\_error: 2.4818 637/4840 [==>...........................] - ETA: 3s - loss: 10.6094 - mean\_absolute\_error: 2.4763 695/4840 [===>..........................] - ETA: 3s - loss: 10.5587 - mean\_absolute\_error: 2.4708 753/4840 [===>..........................] - ETA: 3s - loss: 10.5369 - mean\_absolute\_error: 2.4704 811/4840 [====>.........................] - ETA: 3s - loss: 10.5208 - mean\_absolute\_error: 2.4677 871/4840 [====>.........................] - ETA: 3s - loss: 10.5166 - mean\_absolute\_error: 2.4673 928/4840 [====>.........................] - ETA: 3s - loss: 10.5300 - mean\_absolute\_error: 2.4704 986/4840 [=====>........................] - ETA: 3s - loss: 10.5261 - mean\_absolute\_error: 2.46931044/4840 [=====>........................] - ETA: 3s - loss: 10.5049 - mean\_absolute\_error: 2.46641101/4840 [=====>........................] - ETA: 3s - loss: 10.5067 - mean\_absolute\_error: 2.46621160/4840 [======>.......................] - ETA: 3s - loss: 10.5115 - mean\_absolute\_error: 2.46831218/4840 [======>.......................] - ETA: 3s - loss: 10.5159 - mean\_absolute\_error: 2.47031272/4840 [======>.......................] - ETA: 3s - loss: 10.5279 - mean\_absolute\_error: 2.47191330/4840 [=======>......................] - ETA: 3s - loss: 10.5541 - mean\_absolute\_error: 2.47511387/4840 [=======>......................] - ETA: 3s - loss: 10.5215 - mean\_absolute\_error: 2.47131444/4840 [=======>......................] - ETA: 2s - loss: 10.5059 - mean\_absolute\_error: 2.46911501/4840 [========>.....................] - ETA: 2s - loss: 10.5110 - mean\_absolute\_error: 2.46951560/4840 [========>.....................] - ETA: 2s - loss: 10.4992 - mean\_absolute\_error: 2.46721619/4840 [=========>....................] - ETA: 2s - loss: 10.4997 - mean\_absolute\_error: 2.46741677/4840 [=========>....................] - ETA: 2s - loss: 10.4901 - mean\_absolute\_error: 2.46451734/4840 [=========>....................] - ETA: 2s - loss: 10.4929 - mean\_absolute\_error: 2.46391793/4840 [==========>...................] - ETA: 2s - loss: 10.4938 - mean\_absolute\_error: 2.46381850/4840 [==========>...................] - ETA: 2s - loss: 10.5049 - mean\_absolute\_error: 2.46501909/4840 [==========>...................] - ETA: 2s - loss: 10.5078 - mean\_absolute\_error: 2.46551969/4840 [===========>..................] - ETA: 2s - loss: 10.5121 - mean\_absolute\_error: 2.46542027/4840 [===========>..................] - ETA: 2s - loss: 10.4971 - mean\_absolute\_error: 2.46322083/4840 [===========>..................] - ETA: 2s - loss: 10.5045 - mean\_absolute\_error: 2.46392139/4840 [============>.................] - ETA: 2s - loss: 10.5019 - mean\_absolute\_error: 2.46382196/4840 [============>.................] - ETA: 2s - loss: 10.4868 - mean\_absolute\_error: 2.46242254/4840 [============>.................] - ETA: 2s - loss: 10.4836 - mean\_absolute\_error: 2.46222313/4840 [=============>................] - ETA: 2s - loss: 10.4857 - mean\_absolute\_error: 2.46272371/4840 [=============>................] - ETA: 2s - loss: 10.4782 - mean\_absolute\_error: 2.46202427/4840 [==============>...............] - ETA: 2s - loss: 10.4822 - mean\_absolute\_error: 2.46262484/4840 [==============>...............] - ETA: 2s - loss: 10.4854 - mean\_absolute\_error: 2.46282542/4840 [==============>...............] - ETA: 1s - loss: 10.4805 - mean\_absolute\_error: 2.46182600/4840 [===============>..............] - ETA: 1s - loss: 10.4858 - mean\_absolute\_error: 2.46232659/4840 [===============>..............] - ETA: 1s - loss: 10.4921 - mean\_absolute\_error: 2.46302718/4840 [===============>..............] - ETA: 1s - loss: 10.5033 - mean\_absolute\_error: 2.46432775/4840 [================>.............] - ETA: 1s - loss: 10.5013 - mean\_absolute\_error: 2.46412833/4840 [================>.............] - ETA: 1s - loss: 10.4935 - mean\_absolute\_error: 2.46282892/4840 [================>.............] - ETA: 1s - loss: 10.4898 - mean\_absolute\_error: 2.46282952/4840 [=================>............] - ETA: 1s - loss: 10.4872 - mean\_absolute\_error: 2.46303011/4840 [=================>............] - ETA: 1s - loss: 10.4742 - mean\_absolute\_error: 2.46153070/4840 [==================>...........] - ETA: 1s - loss: 10.4744 - mean\_absolute\_error: 2.46133129/4840 [==================>...........] - ETA: 1s - loss: 10.4823 - mean\_absolute\_error: 2.46193186/4840 [==================>...........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.46323243/4840 [===================>..........] - ETA: 1s - loss: 10.4772 - mean\_absolute\_error: 2.46213300/4840 [===================>..........] - ETA: 1s - loss: 10.4768 - mean\_absolute\_error: 2.46193359/4840 [===================>..........] - ETA: 1s - loss: 10.4771 - mean\_absolute\_error: 2.46203418/4840 [====================>.........] - ETA: 1s - loss: 10.4781 - mean\_absolute\_error: 2.46183477/4840 [====================>.........] - ETA: 1s - loss: 10.4831 - mean\_absolute\_error: 2.46233535/4840 [====================>.........] - ETA: 1s - loss: 10.4844 - mean\_absolute\_error: 2.46253592/4840 [=====================>........] - ETA: 1s - loss: 10.4840 - mean\_absolute\_error: 2.46283651/4840 [=====================>........] - ETA: 1s - loss: 10.4785 - mean\_absolute\_error: 2.46213710/4840 [=====================>........] - ETA: 0s - loss: 10.4887 - mean\_absolute\_error: 2.46353769/4840 [======================>.......] - ETA: 0s - loss: 10.4878 - mean\_absolute\_error: 2.46373828/4840 [======================>.......] - ETA: 0s - loss: 10.4890 - mean\_absolute\_error: 2.46353887/4840 [=======================>......] - ETA: 0s - loss: 10.4897 - mean\_absolute\_error: 2.46383944/4840 [=======================>......] - ETA: 0s - loss: 10.5062 - mean\_absolute\_error: 2.46574003/4840 [=======================>......] - ETA: 0s - loss: 10.5154 - mean\_absolute\_error: 2.46674062/4840 [========================>.....] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46564120/4840 [========================>.....] - ETA: 0s - loss: 10.5176 - mean\_absolute\_error: 2.46674180/4840 [========================>.....] - ETA: 0s - loss: 10.5158 - mean\_absolute\_error: 2.46624240/4840 [=========================>....] - ETA: 0s - loss: 10.5168 - mean\_absolute\_error: 2.46634301/4840 [=========================>....] - ETA: 0s - loss: 10.5097 - mean\_absolute\_error: 2.46524360/4840 [==========================>...] - ETA: 0s - loss: 10.5048 - mean\_absolute\_error: 2.46484418/4840 [==========================>...] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46454476/4840 [==========================>...] - ETA: 0s - loss: 10.5073 - mean\_absolute\_error: 2.46444536/4840 [===========================>..] - ETA: 0s - loss: 10.5113 - mean\_absolute\_error: 2.46484593/4840 [===========================>..] - ETA: 0s - loss: 10.5078 - mean\_absolute\_error: 2.46474651/4840 [===========================>..] - ETA: 0s - loss: 10.5071 - mean\_absolute\_error: 2.46424707/4840 [============================>.] - ETA: 0s - loss: 10.5075 - mean\_absolute\_error: 2.46444764/4840 [============================>.] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46554809/4840 [============================>.] - ETA: 0s - loss: 10.5149 - mean\_absolute\_error: 2.46554840/4840 [==============================] - 4s 915us/step - loss: 10.5128 - mean\_absolute\_error: 2.4653 - val\_loss: 11.4649 - val\_mean\_absolute\_error: 2.5801  
Epoch 34/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.1228 - mean\_absolute\_error: 2.5409 58/4840 [..............................] - ETA: 4s - loss: 10.2161 - mean\_absolute\_error: 2.4271 116/4840 [..............................] - ETA: 4s - loss: 10.2376 - mean\_absolute\_error: 2.4374 176/4840 [>.............................] - ETA: 4s - loss: 10.4476 - mean\_absolute\_error: 2.4591 235/4840 [>.............................] - ETA: 3s - loss: 10.4449 - mean\_absolute\_error: 2.4591 294/4840 [>.............................] - ETA: 3s - loss: 10.3321 - mean\_absolute\_error: 2.4445 353/4840 [=>............................] - ETA: 3s - loss: 10.3682 - mean\_absolute\_error: 2.4507 409/4840 [=>............................] - ETA: 3s - loss: 10.4256 - mean\_absolute\_error: 2.4567 468/4840 [=>............................] - ETA: 3s - loss: 10.3872 - mean\_absolute\_error: 2.4541 526/4840 [==>...........................] - ETA: 3s - loss: 10.4205 - mean\_absolute\_error: 2.4571 584/4840 [==>...........................] - ETA: 3s - loss: 10.4618 - mean\_absolute\_error: 2.4589 643/4840 [==>...........................] - ETA: 3s - loss: 10.4481 - mean\_absolute\_error: 2.4551 702/4840 [===>..........................] - ETA: 3s - loss: 10.4450 - mean\_absolute\_error: 2.4543 758/4840 [===>..........................] - ETA: 3s - loss: 10.4409 - mean\_absolute\_error: 2.4553 815/4840 [====>.........................] - ETA: 3s - loss: 10.4416 - mean\_absolute\_error: 2.4554 873/4840 [====>.........................] - ETA: 3s - loss: 10.4666 - mean\_absolute\_error: 2.4588 933/4840 [====>.........................] - ETA: 3s - loss: 10.4776 - mean\_absolute\_error: 2.4610 993/4840 [=====>........................] - ETA: 3s - loss: 10.5042 - mean\_absolute\_error: 2.46391053/4840 [=====>........................] - ETA: 3s - loss: 10.5356 - mean\_absolute\_error: 2.46691114/4840 [=====>........................] - ETA: 3s - loss: 10.4957 - mean\_absolute\_error: 2.46341172/4840 [======>.......................] - ETA: 3s - loss: 10.4902 - mean\_absolute\_error: 2.46331233/4840 [======>.......................] - ETA: 3s - loss: 10.4847 - mean\_absolute\_error: 2.46331293/4840 [=======>......................] - ETA: 3s - loss: 10.4443 - mean\_absolute\_error: 2.45811350/4840 [=======>......................] - ETA: 3s - loss: 10.4202 - mean\_absolute\_error: 2.45431406/4840 [=======>......................] - ETA: 2s - loss: 10.4012 - mean\_absolute\_error: 2.45151465/4840 [========>.....................] - ETA: 2s - loss: 10.3946 - mean\_absolute\_error: 2.45061524/4840 [========>.....................] - ETA: 2s - loss: 10.3951 - mean\_absolute\_error: 2.45101585/4840 [========>.....................] - ETA: 2s - loss: 10.3972 - mean\_absolute\_error: 2.45051645/4840 [=========>....................] - ETA: 2s - loss: 10.4050 - mean\_absolute\_error: 2.45121698/4840 [=========>....................] - ETA: 2s - loss: 10.4235 - mean\_absolute\_error: 2.45281751/4840 [=========>....................] - ETA: 2s - loss: 10.4214 - mean\_absolute\_error: 2.45241808/4840 [==========>...................] - ETA: 2s - loss: 10.4431 - mean\_absolute\_error: 2.45531866/4840 [==========>...................] - ETA: 2s - loss: 10.4600 - mean\_absolute\_error: 2.45831921/4840 [==========>...................] - ETA: 2s - loss: 10.4553 - mean\_absolute\_error: 2.45801979/4840 [===========>..................] - ETA: 2s - loss: 10.4522 - mean\_absolute\_error: 2.45722036/4840 [===========>..................] - ETA: 2s - loss: 10.4505 - mean\_absolute\_error: 2.45652085/4840 [===========>..................] - ETA: 2s - loss: 10.4452 - mean\_absolute\_error: 2.45572136/4840 [============>.................] - ETA: 2s - loss: 10.4537 - mean\_absolute\_error: 2.45682193/4840 [============>.................] - ETA: 2s - loss: 10.4517 - mean\_absolute\_error: 2.45672249/4840 [============>.................] - ETA: 2s - loss: 10.4611 - mean\_absolute\_error: 2.45822306/4840 [=============>................] - ETA: 2s - loss: 10.4594 - mean\_absolute\_error: 2.45752363/4840 [=============>................] - ETA: 2s - loss: 10.4663 - mean\_absolute\_error: 2.45812418/4840 [=============>................] - ETA: 2s - loss: 10.4720 - mean\_absolute\_error: 2.45872473/4840 [==============>...............] - ETA: 2s - loss: 10.4760 - mean\_absolute\_error: 2.45942531/4840 [==============>...............] - ETA: 2s - loss: 10.4687 - mean\_absolute\_error: 2.45802588/4840 [===============>..............] - ETA: 1s - loss: 10.4749 - mean\_absolute\_error: 2.45862646/4840 [===============>..............] - ETA: 1s - loss: 10.4672 - mean\_absolute\_error: 2.45782703/4840 [===============>..............] - ETA: 1s - loss: 10.4843 - mean\_absolute\_error: 2.45982761/4840 [================>.............] - ETA: 1s - loss: 10.4734 - mean\_absolute\_error: 2.45862819/4840 [================>.............] - ETA: 1s - loss: 10.4801 - mean\_absolute\_error: 2.45922875/4840 [================>.............] - ETA: 1s - loss: 10.4797 - mean\_absolute\_error: 2.45942931/4840 [=================>............] - ETA: 1s - loss: 10.4802 - mean\_absolute\_error: 2.45932988/4840 [=================>............] - ETA: 1s - loss: 10.4764 - mean\_absolute\_error: 2.45883044/4840 [=================>............] - ETA: 1s - loss: 10.4808 - mean\_absolute\_error: 2.45963102/4840 [==================>...........] - ETA: 1s - loss: 10.4689 - mean\_absolute\_error: 2.45803160/4840 [==================>...........] - ETA: 1s - loss: 10.4609 - mean\_absolute\_error: 2.45733219/4840 [==================>...........] - ETA: 1s - loss: 10.4697 - mean\_absolute\_error: 2.45863276/4840 [===================>..........] - ETA: 1s - loss: 10.4794 - mean\_absolute\_error: 2.45993334/4840 [===================>..........] - ETA: 1s - loss: 10.4736 - mean\_absolute\_error: 2.45893391/4840 [====================>.........] - ETA: 1s - loss: 10.4734 - mean\_absolute\_error: 2.45933450/4840 [====================>.........] - ETA: 1s - loss: 10.4815 - mean\_absolute\_error: 2.46013509/4840 [====================>.........] - ETA: 1s - loss: 10.4767 - mean\_absolute\_error: 2.45943567/4840 [=====================>........] - ETA: 1s - loss: 10.4794 - mean\_absolute\_error: 2.45963624/4840 [=====================>........] - ETA: 1s - loss: 10.4805 - mean\_absolute\_error: 2.45983682/4840 [=====================>........] - ETA: 1s - loss: 10.4830 - mean\_absolute\_error: 2.45993740/4840 [======================>.......] - ETA: 0s - loss: 10.4763 - mean\_absolute\_error: 2.45893799/4840 [======================>.......] - ETA: 0s - loss: 10.4808 - mean\_absolute\_error: 2.45993858/4840 [======================>.......] - ETA: 0s - loss: 10.4858 - mean\_absolute\_error: 2.46093915/4840 [=======================>......] - ETA: 0s - loss: 10.4857 - mean\_absolute\_error: 2.46103973/4840 [=======================>......] - ETA: 0s - loss: 10.4963 - mean\_absolute\_error: 2.46214032/4840 [=======================>......] - ETA: 0s - loss: 10.4962 - mean\_absolute\_error: 2.46204089/4840 [========================>.....] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46184147/4840 [========================>.....] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46244203/4840 [=========================>....] - ETA: 0s - loss: 10.5027 - mean\_absolute\_error: 2.46264261/4840 [=========================>....] - ETA: 0s - loss: 10.5177 - mean\_absolute\_error: 2.46454320/4840 [=========================>....] - ETA: 0s - loss: 10.5126 - mean\_absolute\_error: 2.46414380/4840 [==========================>...] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46444439/4840 [==========================>...] - ETA: 0s - loss: 10.5231 - mean\_absolute\_error: 2.46524495/4840 [==========================>...] - ETA: 0s - loss: 10.5181 - mean\_absolute\_error: 2.46444552/4840 [===========================>..] - ETA: 0s - loss: 10.5125 - mean\_absolute\_error: 2.46404611/4840 [===========================>..] - ETA: 0s - loss: 10.5201 - mean\_absolute\_error: 2.46464670/4840 [===========================>..] - ETA: 0s - loss: 10.5195 - mean\_absolute\_error: 2.46494730/4840 [============================>.] - ETA: 0s - loss: 10.5136 - mean\_absolute\_error: 2.46414788/4840 [============================>.] - ETA: 0s - loss: 10.5091 - mean\_absolute\_error: 2.46394840/4840 [==============================] - 4s 917us/step - loss: 10.5114 - mean\_absolute\_error: 2.4642 - val\_loss: 11.4657 - val\_mean\_absolute\_error: 2.5797  
Epoch 35/100  
 1/4840 [..............................] - ETA: 4s - loss: 15.2569 - mean\_absolute\_error: 2.9811 61/4840 [..............................] - ETA: 4s - loss: 10.3377 - mean\_absolute\_error: 2.4363 120/4840 [..............................] - ETA: 3s - loss: 10.1820 - mean\_absolute\_error: 2.4243 179/4840 [>.............................] - ETA: 3s - loss: 10.2012 - mean\_absolute\_error: 2.4342 236/4840 [>.............................] - ETA: 3s - loss: 10.2692 - mean\_absolute\_error: 2.4405 293/4840 [>.............................] - ETA: 3s - loss: 10.4213 - mean\_absolute\_error: 2.4621 352/4840 [=>............................] - ETA: 3s - loss: 10.4668 - mean\_absolute\_error: 2.4634 411/4840 [=>............................] - ETA: 3s - loss: 10.5011 - mean\_absolute\_error: 2.4653 471/4840 [=>............................] - ETA: 3s - loss: 10.3854 - mean\_absolute\_error: 2.4532 531/4840 [==>...........................] - ETA: 3s - loss: 10.4280 - mean\_absolute\_error: 2.4582 590/4840 [==>...........................] - ETA: 3s - loss: 10.4180 - mean\_absolute\_error: 2.4566 648/4840 [===>..........................] - ETA: 3s - loss: 10.4649 - mean\_absolute\_error: 2.4631 706/4840 [===>..........................] - ETA: 3s - loss: 10.4247 - mean\_absolute\_error: 2.4558 766/4840 [===>..........................] - ETA: 3s - loss: 10.4437 - mean\_absolute\_error: 2.4579 825/4840 [====>.........................] - ETA: 3s - loss: 10.4320 - mean\_absolute\_error: 2.4571 884/4840 [====>.........................] - ETA: 3s - loss: 10.4162 - mean\_absolute\_error: 2.4542 941/4840 [====>.........................] - ETA: 3s - loss: 10.4381 - mean\_absolute\_error: 2.45821000/4840 [=====>........................] - ETA: 3s - loss: 10.4189 - mean\_absolute\_error: 2.45661060/4840 [=====>........................] - ETA: 3s - loss: 10.4589 - mean\_absolute\_error: 2.46161120/4840 [=====>........................] - ETA: 3s - loss: 10.4556 - mean\_absolute\_error: 2.46021180/4840 [======>.......................] - ETA: 3s - loss: 10.4529 - mean\_absolute\_error: 2.45911239/4840 [======>.......................] - ETA: 3s - loss: 10.4410 - mean\_absolute\_error: 2.45821298/4840 [=======>......................] - ETA: 3s - loss: 10.4587 - mean\_absolute\_error: 2.46041358/4840 [=======>......................] - ETA: 2s - loss: 10.4728 - mean\_absolute\_error: 2.46171408/4840 [=======>......................] - ETA: 2s - loss: 10.4518 - mean\_absolute\_error: 2.46001464/4840 [========>.....................] - ETA: 2s - loss: 10.4374 - mean\_absolute\_error: 2.45741521/4840 [========>.....................] - ETA: 2s - loss: 10.4241 - mean\_absolute\_error: 2.45541579/4840 [========>.....................] - ETA: 2s - loss: 10.4394 - mean\_absolute\_error: 2.45671638/4840 [=========>....................] - ETA: 2s - loss: 10.4680 - mean\_absolute\_error: 2.46061696/4840 [=========>....................] - ETA: 2s - loss: 10.4821 - mean\_absolute\_error: 2.46261755/4840 [=========>....................] - ETA: 2s - loss: 10.4829 - mean\_absolute\_error: 2.46261814/4840 [==========>...................] - ETA: 2s - loss: 10.4862 - mean\_absolute\_error: 2.46341874/4840 [==========>...................] - ETA: 2s - loss: 10.4853 - mean\_absolute\_error: 2.46261933/4840 [==========>...................] - ETA: 2s - loss: 10.4981 - mean\_absolute\_error: 2.46411992/4840 [===========>..................] - ETA: 2s - loss: 10.5033 - mean\_absolute\_error: 2.46392051/4840 [===========>..................] - ETA: 2s - loss: 10.5038 - mean\_absolute\_error: 2.46352110/4840 [============>.................] - ETA: 2s - loss: 10.5076 - mean\_absolute\_error: 2.46382169/4840 [============>.................] - ETA: 2s - loss: 10.5026 - mean\_absolute\_error: 2.46302225/4840 [============>.................] - ETA: 2s - loss: 10.5061 - mean\_absolute\_error: 2.46362284/4840 [=============>................] - ETA: 2s - loss: 10.5107 - mean\_absolute\_error: 2.46372344/4840 [=============>................] - ETA: 2s - loss: 10.5141 - mean\_absolute\_error: 2.46422404/4840 [=============>................] - ETA: 2s - loss: 10.5105 - mean\_absolute\_error: 2.46342463/4840 [==============>...............] - ETA: 2s - loss: 10.5157 - mean\_absolute\_error: 2.46362522/4840 [==============>...............] - ETA: 1s - loss: 10.5005 - mean\_absolute\_error: 2.46212576/4840 [==============>...............] - ETA: 1s - loss: 10.5014 - mean\_absolute\_error: 2.46162635/4840 [===============>..............] - ETA: 1s - loss: 10.5018 - mean\_absolute\_error: 2.46212692/4840 [===============>..............] - ETA: 1s - loss: 10.5055 - mean\_absolute\_error: 2.46272751/4840 [================>.............] - ETA: 1s - loss: 10.5225 - mean\_absolute\_error: 2.46472809/4840 [================>.............] - ETA: 1s - loss: 10.5294 - mean\_absolute\_error: 2.46612867/4840 [================>.............] - ETA: 1s - loss: 10.5246 - mean\_absolute\_error: 2.46502927/4840 [=================>............] - ETA: 1s - loss: 10.5250 - mean\_absolute\_error: 2.46462987/4840 [=================>............] - ETA: 1s - loss: 10.5232 - mean\_absolute\_error: 2.46453045/4840 [=================>............] - ETA: 1s - loss: 10.5252 - mean\_absolute\_error: 2.46483103/4840 [==================>...........] - ETA: 1s - loss: 10.5268 - mean\_absolute\_error: 2.46463161/4840 [==================>...........] - ETA: 1s - loss: 10.5271 - mean\_absolute\_error: 2.46463219/4840 [==================>...........] - ETA: 1s - loss: 10.5229 - mean\_absolute\_error: 2.46393276/4840 [===================>..........] - ETA: 1s - loss: 10.5168 - mean\_absolute\_error: 2.46373334/4840 [===================>..........] - ETA: 1s - loss: 10.5177 - mean\_absolute\_error: 2.46373392/4840 [====================>.........] - ETA: 1s - loss: 10.5159 - mean\_absolute\_error: 2.46373448/4840 [====================>.........] - ETA: 1s - loss: 10.5138 - mean\_absolute\_error: 2.46343505/4840 [====================>.........] - ETA: 1s - loss: 10.5083 - mean\_absolute\_error: 2.46223564/4840 [=====================>........] - ETA: 1s - loss: 10.5137 - mean\_absolute\_error: 2.46293624/4840 [=====================>........] - ETA: 1s - loss: 10.5082 - mean\_absolute\_error: 2.46233684/4840 [=====================>........] - ETA: 0s - loss: 10.5193 - mean\_absolute\_error: 2.46393740/4840 [======================>.......] - ETA: 0s - loss: 10.5111 - mean\_absolute\_error: 2.46303798/4840 [======================>.......] - ETA: 0s - loss: 10.5106 - mean\_absolute\_error: 2.46303857/4840 [======================>.......] - ETA: 0s - loss: 10.5117 - mean\_absolute\_error: 2.46283917/4840 [=======================>......] - ETA: 0s - loss: 10.5061 - mean\_absolute\_error: 2.46243976/4840 [=======================>......] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46354035/4840 [========================>.....] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46314094/4840 [========================>.....] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46364154/4840 [========================>.....] - ETA: 0s - loss: 10.5014 - mean\_absolute\_error: 2.46244212/4840 [=========================>....] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46204270/4840 [=========================>....] - ETA: 0s - loss: 10.4959 - mean\_absolute\_error: 2.46134329/4840 [=========================>....] - ETA: 0s - loss: 10.4918 - mean\_absolute\_error: 2.46084389/4840 [==========================>...] - ETA: 0s - loss: 10.4969 - mean\_absolute\_error: 2.46144447/4840 [==========================>...] - ETA: 0s - loss: 10.4991 - mean\_absolute\_error: 2.46204505/4840 [==========================>...] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46234561/4840 [===========================>..] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46234621/4840 [===========================>..] - ETA: 0s - loss: 10.5029 - mean\_absolute\_error: 2.46264680/4840 [============================>.] - ETA: 0s - loss: 10.5105 - mean\_absolute\_error: 2.46374740/4840 [============================>.] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46384799/4840 [============================>.] - ETA: 0s - loss: 10.5066 - mean\_absolute\_error: 2.46344840/4840 [==============================] - 4s 903us/step - loss: 10.5097 - mean\_absolute\_error: 2.4639 - val\_loss: 11.4678 - val\_mean\_absolute\_error: 2.5802  
Epoch 36/100  
 1/4840 [..............................] - ETA: 4s - loss: 10.8319 - mean\_absolute\_error: 2.7188 60/4840 [..............................] - ETA: 4s - loss: 10.5124 - mean\_absolute\_error: 2.4789 118/4840 [..............................] - ETA: 4s - loss: 10.8145 - mean\_absolute\_error: 2.5061 177/4840 [>.............................] - ETA: 4s - loss: 10.5066 - mean\_absolute\_error: 2.4632 235/4840 [>.............................] - ETA: 3s - loss: 10.5953 - mean\_absolute\_error: 2.4815 293/4840 [>.............................] - ETA: 3s - loss: 10.4726 - mean\_absolute\_error: 2.4623 352/4840 [=>............................] - ETA: 3s - loss: 10.4088 - mean\_absolute\_error: 2.4558 410/4840 [=>............................] - ETA: 3s - loss: 10.3806 - mean\_absolute\_error: 2.4496 470/4840 [=>............................] - ETA: 3s - loss: 10.3174 - mean\_absolute\_error: 2.4379 530/4840 [==>...........................] - ETA: 3s - loss: 10.3193 - mean\_absolute\_error: 2.4373 588/4840 [==>...........................] - ETA: 3s - loss: 10.3498 - mean\_absolute\_error: 2.4437 649/4840 [===>..........................] - ETA: 3s - loss: 10.3265 - mean\_absolute\_error: 2.4409 704/4840 [===>..........................] - ETA: 3s - loss: 10.3695 - mean\_absolute\_error: 2.4468 762/4840 [===>..........................] - ETA: 3s - loss: 10.3980 - mean\_absolute\_error: 2.4512 821/4840 [====>.........................] - ETA: 3s - loss: 10.4300 - mean\_absolute\_error: 2.4558 879/4840 [====>.........................] - ETA: 3s - loss: 10.4277 - mean\_absolute\_error: 2.4557 938/4840 [====>.........................] - ETA: 3s - loss: 10.4526 - mean\_absolute\_error: 2.4587 993/4840 [=====>........................] - ETA: 3s - loss: 10.4629 - mean\_absolute\_error: 2.46091051/4840 [=====>........................] - ETA: 3s - loss: 10.4542 - mean\_absolute\_error: 2.46011109/4840 [=====>........................] - ETA: 3s - loss: 10.4558 - mean\_absolute\_error: 2.46001169/4840 [======>.......................] - ETA: 3s - loss: 10.4513 - mean\_absolute\_error: 2.45971228/4840 [======>.......................] - ETA: 3s - loss: 10.4202 - mean\_absolute\_error: 2.45551287/4840 [======>.......................] - ETA: 3s - loss: 10.3986 - mean\_absolute\_error: 2.45261347/4840 [=======>......................] - ETA: 3s - loss: 10.3986 - mean\_absolute\_error: 2.45341404/4840 [=======>......................] - ETA: 2s - loss: 10.4092 - mean\_absolute\_error: 2.45451462/4840 [========>.....................] - ETA: 2s - loss: 10.4153 - mean\_absolute\_error: 2.45521521/4840 [========>.....................] - ETA: 2s - loss: 10.3938 - mean\_absolute\_error: 2.45201580/4840 [========>.....................] - ETA: 2s - loss: 10.3879 - mean\_absolute\_error: 2.45091639/4840 [=========>....................] - ETA: 2s - loss: 10.3996 - mean\_absolute\_error: 2.45331699/4840 [=========>....................] - ETA: 2s - loss: 10.4254 - mean\_absolute\_error: 2.45571757/4840 [=========>....................] - ETA: 2s - loss: 10.4255 - mean\_absolute\_error: 2.45531814/4840 [==========>...................] - ETA: 2s - loss: 10.4453 - mean\_absolute\_error: 2.45771872/4840 [==========>...................] - ETA: 2s - loss: 10.4353 - mean\_absolute\_error: 2.45581931/4840 [==========>...................] - ETA: 2s - loss: 10.4395 - mean\_absolute\_error: 2.45671991/4840 [===========>..................] - ETA: 2s - loss: 10.4331 - mean\_absolute\_error: 2.45612050/4840 [===========>..................] - ETA: 2s - loss: 10.4370 - mean\_absolute\_error: 2.45632110/4840 [============>.................] - ETA: 2s - loss: 10.4315 - mean\_absolute\_error: 2.45542166/4840 [============>.................] - ETA: 2s - loss: 10.4324 - mean\_absolute\_error: 2.45612224/4840 [============>.................] - ETA: 2s - loss: 10.4455 - mean\_absolute\_error: 2.45772283/4840 [=============>................] - ETA: 2s - loss: 10.4237 - mean\_absolute\_error: 2.45492342/4840 [=============>................] - ETA: 2s - loss: 10.4327 - mean\_absolute\_error: 2.45572402/4840 [=============>................] - ETA: 2s - loss: 10.4339 - mean\_absolute\_error: 2.45572462/4840 [==============>...............] - ETA: 2s - loss: 10.4331 - mean\_absolute\_error: 2.45552521/4840 [==============>...............] - ETA: 1s - loss: 10.4300 - mean\_absolute\_error: 2.45502581/4840 [==============>...............] - ETA: 1s - loss: 10.4327 - mean\_absolute\_error: 2.45492641/4840 [===============>..............] - ETA: 1s - loss: 10.4535 - mean\_absolute\_error: 2.45702698/4840 [===============>..............] - ETA: 1s - loss: 10.4555 - mean\_absolute\_error: 2.45732756/4840 [================>.............] - ETA: 1s - loss: 10.4589 - mean\_absolute\_error: 2.45822816/4840 [================>.............] - ETA: 1s - loss: 10.4714 - mean\_absolute\_error: 2.45962876/4840 [================>.............] - ETA: 1s - loss: 10.4916 - mean\_absolute\_error: 2.46182935/4840 [=================>............] - ETA: 1s - loss: 10.4890 - mean\_absolute\_error: 2.46112993/4840 [=================>............] - ETA: 1s - loss: 10.4950 - mean\_absolute\_error: 2.46213052/4840 [=================>............] - ETA: 1s - loss: 10.4907 - mean\_absolute\_error: 2.46153112/4840 [==================>...........] - ETA: 1s - loss: 10.4859 - mean\_absolute\_error: 2.46103172/4840 [==================>...........] - ETA: 1s - loss: 10.4781 - mean\_absolute\_error: 2.45993231/4840 [===================>..........] - ETA: 1s - loss: 10.4755 - mean\_absolute\_error: 2.45923291/4840 [===================>..........] - ETA: 1s - loss: 10.4690 - mean\_absolute\_error: 2.45833348/4840 [===================>..........] - ETA: 1s - loss: 10.4732 - mean\_absolute\_error: 2.45873406/4840 [====================>.........] - ETA: 1s - loss: 10.4748 - mean\_absolute\_error: 2.45873465/4840 [====================>.........] - ETA: 1s - loss: 10.4774 - mean\_absolute\_error: 2.45913525/4840 [====================>.........] - ETA: 1s - loss: 10.4870 - mean\_absolute\_error: 2.46063585/4840 [=====================>........] - ETA: 1s - loss: 10.4958 - mean\_absolute\_error: 2.46173645/4840 [=====================>........] - ETA: 1s - loss: 10.4982 - mean\_absolute\_error: 2.46173705/4840 [=====================>........] - ETA: 0s - loss: 10.5016 - mean\_absolute\_error: 2.46223764/4840 [======================>.......] - ETA: 0s - loss: 10.4956 - mean\_absolute\_error: 2.46133824/4840 [======================>.......] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46163883/4840 [=======================>......] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46283943/4840 [=======================>......] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46224003/4840 [=======================>......] - ETA: 0s - loss: 10.5036 - mean\_absolute\_error: 2.46314063/4840 [========================>.....] - ETA: 0s - loss: 10.5054 - mean\_absolute\_error: 2.46334119/4840 [========================>.....] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46284176/4840 [========================>.....] - ETA: 0s - loss: 10.5051 - mean\_absolute\_error: 2.46334235/4840 [=========================>....] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46244294/4840 [=========================>....] - ETA: 0s - loss: 10.4884 - mean\_absolute\_error: 2.46144353/4840 [=========================>....] - ETA: 0s - loss: 10.4963 - mean\_absolute\_error: 2.46254414/4840 [==========================>...] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.46264474/4840 [==========================>...] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46274531/4840 [===========================>..] - ETA: 0s - loss: 10.5047 - mean\_absolute\_error: 2.46354592/4840 [===========================>..] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46384652/4840 [===========================>..] - ETA: 0s - loss: 10.5072 - mean\_absolute\_error: 2.46384712/4840 [============================>.] - ETA: 0s - loss: 10.5066 - mean\_absolute\_error: 2.46354771/4840 [============================>.] - ETA: 0s - loss: 10.5084 - mean\_absolute\_error: 2.46384831/4840 [============================>.] - ETA: 0s - loss: 10.5097 - mean\_absolute\_error: 2.46384840/4840 [==============================] - 4s 896us/step - loss: 10.5087 - mean\_absolute\_error: 2.4637 - val\_loss: 11.4698 - val\_mean\_absolute\_error: 2.5803  
Epoch 37/100  
 1/4840 [..............................] - ETA: 4s - loss: 6.8231 - mean\_absolute\_error: 1.9993 62/4840 [..............................] - ETA: 3s - loss: 10.4449 - mean\_absolute\_error: 2.4804 122/4840 [..............................] - ETA: 3s - loss: 10.2509 - mean\_absolute\_error: 2.4522 182/4840 [>.............................] - ETA: 3s - loss: 10.2461 - mean\_absolute\_error: 2.4488 242/4840 [>.............................] - ETA: 3s - loss: 10.3880 - mean\_absolute\_error: 2.4610 304/4840 [>.............................] - ETA: 3s - loss: 10.3920 - mean\_absolute\_error: 2.4610 365/4840 [=>............................] - ETA: 3s - loss: 10.2494 - mean\_absolute\_error: 2.4413 423/4840 [=>............................] - ETA: 3s - loss: 10.2610 - mean\_absolute\_error: 2.4429 482/4840 [=>............................] - ETA: 3s - loss: 10.2744 - mean\_absolute\_error: 2.4432 541/4840 [==>...........................] - ETA: 3s - loss: 10.3086 - mean\_absolute\_error: 2.4428 599/4840 [==>...........................] - ETA: 3s - loss: 10.3182 - mean\_absolute\_error: 2.4459 657/4840 [===>..........................] - ETA: 3s - loss: 10.2850 - mean\_absolute\_error: 2.4395 717/4840 [===>..........................] - ETA: 3s - loss: 10.2918 - mean\_absolute\_error: 2.4406 778/4840 [===>..........................] - ETA: 3s - loss: 10.3835 - mean\_absolute\_error: 2.4514 838/4840 [====>.........................] - ETA: 3s - loss: 10.3773 - mean\_absolute\_error: 2.4505 897/4840 [====>.........................] - ETA: 3s - loss: 10.3853 - mean\_absolute\_error: 2.4506 956/4840 [====>.........................] - ETA: 3s - loss: 10.3852 - mean\_absolute\_error: 2.45151015/4840 [=====>........................] - ETA: 3s - loss: 10.3992 - mean\_absolute\_error: 2.45091075/4840 [=====>........................] - ETA: 3s - loss: 10.4135 - mean\_absolute\_error: 2.45251135/4840 [======>.......................] - ETA: 3s - loss: 10.4097 - mean\_absolute\_error: 2.45201195/4840 [======>.......................] - ETA: 3s - loss: 10.4178 - mean\_absolute\_error: 2.45351256/4840 [======>.......................] - ETA: 3s - loss: 10.3864 - mean\_absolute\_error: 2.44991316/4840 [=======>......................] - ETA: 2s - loss: 10.3720 - mean\_absolute\_error: 2.44771377/4840 [=======>......................] - ETA: 2s - loss: 10.3705 - mean\_absolute\_error: 2.44601433/4840 [=======>......................] - ETA: 2s - loss: 10.3639 - mean\_absolute\_error: 2.44601492/4840 [========>.....................] - ETA: 2s - loss: 10.3738 - mean\_absolute\_error: 2.44691551/4840 [========>.....................] - ETA: 2s - loss: 10.3911 - mean\_absolute\_error: 2.44981611/4840 [========>.....................] - ETA: 2s - loss: 10.4258 - mean\_absolute\_error: 2.45381670/4840 [=========>....................] - ETA: 2s - loss: 10.4373 - mean\_absolute\_error: 2.45551728/4840 [=========>....................] - ETA: 2s - loss: 10.4406 - mean\_absolute\_error: 2.45641784/4840 [==========>...................] - ETA: 2s - loss: 10.4424 - mean\_absolute\_error: 2.45631843/4840 [==========>...................] - ETA: 2s - loss: 10.4418 - mean\_absolute\_error: 2.45701903/4840 [==========>...................] - ETA: 2s - loss: 10.4661 - mean\_absolute\_error: 2.46001963/4840 [===========>..................] - ETA: 2s - loss: 10.4542 - mean\_absolute\_error: 2.45852024/4840 [===========>..................] - ETA: 2s - loss: 10.4579 - mean\_absolute\_error: 2.45892083/4840 [===========>..................] - ETA: 2s - loss: 10.4666 - mean\_absolute\_error: 2.46002143/4840 [============>.................] - ETA: 2s - loss: 10.4856 - mean\_absolute\_error: 2.46222203/4840 [============>.................] - ETA: 2s - loss: 10.4785 - mean\_absolute\_error: 2.46142264/4840 [=============>................] - ETA: 2s - loss: 10.4873 - mean\_absolute\_error: 2.46192323/4840 [=============>................] - ETA: 2s - loss: 10.4634 - mean\_absolute\_error: 2.45922382/4840 [=============>................] - ETA: 2s - loss: 10.4552 - mean\_absolute\_error: 2.45812443/4840 [==============>...............] - ETA: 2s - loss: 10.4492 - mean\_absolute\_error: 2.45692502/4840 [==============>...............] - ETA: 1s - loss: 10.4516 - mean\_absolute\_error: 2.45742562/4840 [==============>...............] - ETA: 1s - loss: 10.4576 - mean\_absolute\_error: 2.45772623/4840 [===============>..............] - ETA: 1s - loss: 10.4715 - mean\_absolute\_error: 2.45992680/4840 [===============>..............] - ETA: 1s - loss: 10.4687 - mean\_absolute\_error: 2.45972739/4840 [===============>..............] - ETA: 1s - loss: 10.4777 - mean\_absolute\_error: 2.46072800/4840 [================>.............] - ETA: 1s - loss: 10.4765 - mean\_absolute\_error: 2.46062860/4840 [================>.............] - ETA: 1s - loss: 10.4760 - mean\_absolute\_error: 2.46112914/4840 [=================>............] - ETA: 1s - loss: 10.4683 - mean\_absolute\_error: 2.46012971/4840 [=================>............] - ETA: 1s - loss: 10.4862 - mean\_absolute\_error: 2.46203029/4840 [=================>............] - ETA: 1s - loss: 10.4879 - mean\_absolute\_error: 2.46153087/4840 [==================>...........] - ETA: 1s - loss: 10.4824 - mean\_absolute\_error: 2.46113147/4840 [==================>...........] - ETA: 1s - loss: 10.4806 - mean\_absolute\_error: 2.46073205/4840 [==================>...........] - ETA: 1s - loss: 10.4790 - mean\_absolute\_error: 2.46063266/4840 [===================>..........] - ETA: 1s - loss: 10.4789 - mean\_absolute\_error: 2.46063326/4840 [===================>..........] - ETA: 1s - loss: 10.4851 - mean\_absolute\_error: 2.46123384/4840 [===================>..........] - ETA: 1s - loss: 10.4945 - mean\_absolute\_error: 2.46273442/4840 [====================>.........] - ETA: 1s - loss: 10.5011 - mean\_absolute\_error: 2.46353500/4840 [====================>.........] - ETA: 1s - loss: 10.5029 - mean\_absolute\_error: 2.46403558/4840 [=====================>........] - ETA: 1s - loss: 10.5172 - mean\_absolute\_error: 2.46623619/4840 [=====================>........] - ETA: 1s - loss: 10.5073 - mean\_absolute\_error: 2.46473679/4840 [=====================>........] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46513739/4840 [======================>.......] - ETA: 0s - loss: 10.5086 - mean\_absolute\_error: 2.46533794/4840 [======================>.......] - ETA: 0s - loss: 10.5078 - mean\_absolute\_error: 2.46503853/4840 [======================>.......] - ETA: 0s - loss: 10.5002 - mean\_absolute\_error: 2.46423912/4840 [=======================>......] - ETA: 0s - loss: 10.4981 - mean\_absolute\_error: 2.46403972/4840 [=======================>......] - ETA: 0s - loss: 10.5002 - mean\_absolute\_error: 2.46424031/4840 [=======================>......] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46464090/4840 [========================>.....] - ETA: 0s - loss: 10.5084 - mean\_absolute\_error: 2.46504146/4840 [========================>.....] - ETA: 0s - loss: 10.5059 - mean\_absolute\_error: 2.46474204/4840 [=========================>....] - ETA: 0s - loss: 10.5093 - mean\_absolute\_error: 2.46494263/4840 [=========================>....] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46604323/4840 [=========================>....] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46514381/4840 [==========================>...] - ETA: 0s - loss: 10.5164 - mean\_absolute\_error: 2.46534440/4840 [==========================>...] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46524497/4840 [==========================>...] - ETA: 0s - loss: 10.5097 - mean\_absolute\_error: 2.46424555/4840 [===========================>..] - ETA: 0s - loss: 10.5078 - mean\_absolute\_error: 2.46384613/4840 [===========================>..] - ETA: 0s - loss: 10.5137 - mean\_absolute\_error: 2.46484671/4840 [===========================>..] - ETA: 0s - loss: 10.5136 - mean\_absolute\_error: 2.46494728/4840 [============================>.] - ETA: 0s - loss: 10.5101 - mean\_absolute\_error: 2.46444787/4840 [============================>.] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46454840/4840 [==============================] - 4s 894us/step - loss: 10.5081 - mean\_absolute\_error: 2.4642 - val\_loss: 11.4704 - val\_mean\_absolute\_error: 2.5795  
Epoch 38/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.0383 - mean\_absolute\_error: 2.9302 62/4840 [..............................] - ETA: 3s - loss: 10.7101 - mean\_absolute\_error: 2.5106 121/4840 [..............................] - ETA: 3s - loss: 10.6990 - mean\_absolute\_error: 2.4940 180/4840 [>.............................] - ETA: 3s - loss: 10.4787 - mean\_absolute\_error: 2.4655 239/4840 [>.............................] - ETA: 3s - loss: 10.4179 - mean\_absolute\_error: 2.4525 299/4840 [>.............................] - ETA: 3s - loss: 10.2907 - mean\_absolute\_error: 2.4397 360/4840 [=>............................] - ETA: 3s - loss: 10.2960 - mean\_absolute\_error: 2.4389 420/4840 [=>............................] - ETA: 3s - loss: 10.3856 - mean\_absolute\_error: 2.4501 479/4840 [=>............................] - ETA: 3s - loss: 10.4079 - mean\_absolute\_error: 2.4520 537/4840 [==>...........................] - ETA: 3s - loss: 10.4518 - mean\_absolute\_error: 2.4564 596/4840 [==>...........................] - ETA: 3s - loss: 10.4527 - mean\_absolute\_error: 2.4584 656/4840 [===>..........................] - ETA: 3s - loss: 10.4662 - mean\_absolute\_error: 2.4604 716/4840 [===>..........................] - ETA: 3s - loss: 10.5008 - mean\_absolute\_error: 2.4636 777/4840 [===>..........................] - ETA: 3s - loss: 10.4932 - mean\_absolute\_error: 2.4634 835/4840 [====>.........................] - ETA: 3s - loss: 10.5250 - mean\_absolute\_error: 2.4688 894/4840 [====>.........................] - ETA: 3s - loss: 10.5238 - mean\_absolute\_error: 2.4693 954/4840 [====>.........................] - ETA: 3s - loss: 10.5046 - mean\_absolute\_error: 2.46631012/4840 [=====>........................] - ETA: 3s - loss: 10.5156 - mean\_absolute\_error: 2.46761071/4840 [=====>........................] - ETA: 3s - loss: 10.5153 - mean\_absolute\_error: 2.46891130/4840 [======>.......................] - ETA: 3s - loss: 10.5255 - mean\_absolute\_error: 2.46981190/4840 [======>.......................] - ETA: 3s - loss: 10.5354 - mean\_absolute\_error: 2.47161250/4840 [======>.......................] - ETA: 3s - loss: 10.5369 - mean\_absolute\_error: 2.47291310/4840 [=======>......................] - ETA: 2s - loss: 10.5175 - mean\_absolute\_error: 2.47011367/4840 [=======>......................] - ETA: 2s - loss: 10.4910 - mean\_absolute\_error: 2.46651424/4840 [=======>......................] - ETA: 2s - loss: 10.4938 - mean\_absolute\_error: 2.46491483/4840 [========>.....................] - ETA: 2s - loss: 10.4917 - mean\_absolute\_error: 2.46471541/4840 [========>.....................] - ETA: 2s - loss: 10.4841 - mean\_absolute\_error: 2.46411600/4840 [========>.....................] - ETA: 2s - loss: 10.4766 - mean\_absolute\_error: 2.46331659/4840 [=========>....................] - ETA: 2s - loss: 10.4755 - mean\_absolute\_error: 2.46251716/4840 [=========>....................] - ETA: 2s - loss: 10.4737 - mean\_absolute\_error: 2.46221774/4840 [=========>....................] - ETA: 2s - loss: 10.4820 - mean\_absolute\_error: 2.46281831/4840 [==========>...................] - ETA: 2s - loss: 10.4994 - mean\_absolute\_error: 2.46551890/4840 [==========>...................] - ETA: 2s - loss: 10.4936 - mean\_absolute\_error: 2.46481945/4840 [===========>..................] - ETA: 2s - loss: 10.4894 - mean\_absolute\_error: 2.46381994/4840 [===========>..................] - ETA: 2s - loss: 10.5039 - mean\_absolute\_error: 2.46512041/4840 [===========>..................] - ETA: 2s - loss: 10.5137 - mean\_absolute\_error: 2.46612087/4840 [===========>..................] - ETA: 2s - loss: 10.5152 - mean\_absolute\_error: 2.46622133/4840 [============>.................] - ETA: 2s - loss: 10.4974 - mean\_absolute\_error: 2.46332186/4840 [============>.................] - ETA: 2s - loss: 10.4891 - mean\_absolute\_error: 2.46242245/4840 [============>.................] - ETA: 2s - loss: 10.4793 - mean\_absolute\_error: 2.46082305/4840 [=============>................] - ETA: 2s - loss: 10.4724 - mean\_absolute\_error: 2.46002364/4840 [=============>................] - ETA: 2s - loss: 10.4694 - mean\_absolute\_error: 2.45992424/4840 [==============>...............] - ETA: 2s - loss: 10.4677 - mean\_absolute\_error: 2.45982480/4840 [==============>...............] - ETA: 2s - loss: 10.4751 - mean\_absolute\_error: 2.46082538/4840 [==============>...............] - ETA: 2s - loss: 10.4790 - mean\_absolute\_error: 2.46162599/4840 [===============>..............] - ETA: 1s - loss: 10.4841 - mean\_absolute\_error: 2.46152659/4840 [===============>..............] - ETA: 1s - loss: 10.4874 - mean\_absolute\_error: 2.46212719/4840 [===============>..............] - ETA: 1s - loss: 10.4851 - mean\_absolute\_error: 2.46172778/4840 [================>.............] - ETA: 1s - loss: 10.4818 - mean\_absolute\_error: 2.46142838/4840 [================>.............] - ETA: 1s - loss: 10.4902 - mean\_absolute\_error: 2.46212898/4840 [================>.............] - ETA: 1s - loss: 10.4898 - mean\_absolute\_error: 2.46192957/4840 [=================>............] - ETA: 1s - loss: 10.4892 - mean\_absolute\_error: 2.46123015/4840 [=================>............] - ETA: 1s - loss: 10.4794 - mean\_absolute\_error: 2.46013075/4840 [==================>...........] - ETA: 1s - loss: 10.4830 - mean\_absolute\_error: 2.46073136/4840 [==================>...........] - ETA: 1s - loss: 10.4971 - mean\_absolute\_error: 2.46203196/4840 [==================>...........] - ETA: 1s - loss: 10.4992 - mean\_absolute\_error: 2.46253255/4840 [===================>..........] - ETA: 1s - loss: 10.4906 - mean\_absolute\_error: 2.46113311/4840 [===================>..........] - ETA: 1s - loss: 10.4961 - mean\_absolute\_error: 2.46153369/4840 [===================>..........] - ETA: 1s - loss: 10.4911 - mean\_absolute\_error: 2.46133429/4840 [====================>.........] - ETA: 1s - loss: 10.5003 - mean\_absolute\_error: 2.46263489/4840 [====================>.........] - ETA: 1s - loss: 10.4930 - mean\_absolute\_error: 2.46163550/4840 [=====================>........] - ETA: 1s - loss: 10.4849 - mean\_absolute\_error: 2.46063604/4840 [=====================>........] - ETA: 1s - loss: 10.4876 - mean\_absolute\_error: 2.46063659/4840 [=====================>........] - ETA: 1s - loss: 10.4847 - mean\_absolute\_error: 2.46053717/4840 [======================>.......] - ETA: 0s - loss: 10.4731 - mean\_absolute\_error: 2.45873774/4840 [======================>.......] - ETA: 0s - loss: 10.4720 - mean\_absolute\_error: 2.45873833/4840 [======================>.......] - ETA: 0s - loss: 10.4739 - mean\_absolute\_error: 2.45853892/4840 [=======================>......] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45993952/4840 [=======================>......] - ETA: 0s - loss: 10.4836 - mean\_absolute\_error: 2.45994011/4840 [=======================>......] - ETA: 0s - loss: 10.4924 - mean\_absolute\_error: 2.46114070/4840 [========================>.....] - ETA: 0s - loss: 10.4914 - mean\_absolute\_error: 2.46054130/4840 [========================>.....] - ETA: 0s - loss: 10.4975 - mean\_absolute\_error: 2.46134190/4840 [========================>.....] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.46134249/4840 [=========================>....] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46164310/4840 [=========================>....] - ETA: 0s - loss: 10.4946 - mean\_absolute\_error: 2.46114366/4840 [==========================>...] - ETA: 0s - loss: 10.4912 - mean\_absolute\_error: 2.46064424/4840 [==========================>...] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.46074485/4840 [==========================>...] - ETA: 0s - loss: 10.4882 - mean\_absolute\_error: 2.46054545/4840 [===========================>..] - ETA: 0s - loss: 10.4875 - mean\_absolute\_error: 2.46064606/4840 [===========================>..] - ETA: 0s - loss: 10.4887 - mean\_absolute\_error: 2.46054665/4840 [===========================>..] - ETA: 0s - loss: 10.4897 - mean\_absolute\_error: 2.46064726/4840 [============================>.] - ETA: 0s - loss: 10.4939 - mean\_absolute\_error: 2.46144785/4840 [============================>.] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46224840/4840 [==============================] - 4s 908us/step - loss: 10.5069 - mean\_absolute\_error: 2.4627 - val\_loss: 11.4744 - val\_mean\_absolute\_error: 2.5801  
Epoch 39/100  
 1/4840 [..............................] - ETA: 4s - loss: 8.0240 - mean\_absolute\_error: 2.2858 58/4840 [..............................] - ETA: 4s - loss: 10.6405 - mean\_absolute\_error: 2.4916 117/4840 [..............................] - ETA: 4s - loss: 10.5230 - mean\_absolute\_error: 2.4691 175/4840 [>.............................] - ETA: 4s - loss: 10.7796 - mean\_absolute\_error: 2.5016 235/4840 [>.............................] - ETA: 3s - loss: 10.5491 - mean\_absolute\_error: 2.4690 294/4840 [>.............................] - ETA: 3s - loss: 10.5501 - mean\_absolute\_error: 2.4682 352/4840 [=>............................] - ETA: 3s - loss: 10.5114 - mean\_absolute\_error: 2.4626 411/4840 [=>............................] - ETA: 3s - loss: 10.4128 - mean\_absolute\_error: 2.4474 468/4840 [=>............................] - ETA: 3s - loss: 10.4342 - mean\_absolute\_error: 2.4533 525/4840 [==>...........................] - ETA: 3s - loss: 10.4952 - mean\_absolute\_error: 2.4624 581/4840 [==>...........................] - ETA: 3s - loss: 10.4913 - mean\_absolute\_error: 2.4623 639/4840 [==>...........................] - ETA: 3s - loss: 10.4605 - mean\_absolute\_error: 2.4597 697/4840 [===>..........................] - ETA: 3s - loss: 10.4185 - mean\_absolute\_error: 2.4526 756/4840 [===>..........................] - ETA: 3s - loss: 10.4637 - mean\_absolute\_error: 2.4585 815/4840 [====>.........................] - ETA: 3s - loss: 10.5020 - mean\_absolute\_error: 2.4621 871/4840 [====>.........................] - ETA: 3s - loss: 10.5053 - mean\_absolute\_error: 2.4617 929/4840 [====>.........................] - ETA: 3s - loss: 10.4954 - mean\_absolute\_error: 2.4600 987/4840 [=====>........................] - ETA: 3s - loss: 10.4974 - mean\_absolute\_error: 2.46041045/4840 [=====>........................] - ETA: 3s - loss: 10.4827 - mean\_absolute\_error: 2.45771104/4840 [=====>........................] - ETA: 3s - loss: 10.4955 - mean\_absolute\_error: 2.46081163/4840 [======>.......................] - ETA: 3s - loss: 10.4979 - mean\_absolute\_error: 2.46171222/4840 [======>.......................] - ETA: 3s - loss: 10.4726 - mean\_absolute\_error: 2.45861279/4840 [======>.......................] - ETA: 3s - loss: 10.4662 - mean\_absolute\_error: 2.45701301/4840 [=======>......................] - ETA: 3s - loss: 10.4519 - mean\_absolute\_error: 2.45501324/4840 [=======>......................] - ETA: 3s - loss: 10.4335 - mean\_absolute\_error: 2.45301351/4840 [=======>......................] - ETA: 3s - loss: 10.4314 - mean\_absolute\_error: 2.45291390/4840 [=======>......................] - ETA: 3s - loss: 10.4159 - mean\_absolute\_error: 2.45191422/4840 [=======>......................] - ETA: 3s - loss: 10.4262 - mean\_absolute\_error: 2.45351464/4840 [========>.....................] - ETA: 3s - loss: 10.4388 - mean\_absolute\_error: 2.45481513/4840 [========>.....................] - ETA: 3s - loss: 10.4436 - mean\_absolute\_error: 2.45481563/4840 [========>.....................] - ETA: 3s - loss: 10.4681 - mean\_absolute\_error: 2.45701611/4840 [========>.....................] - ETA: 3s - loss: 10.4537 - mean\_absolute\_error: 2.45421666/4840 [=========>....................] - ETA: 3s - loss: 10.4651 - mean\_absolute\_error: 2.45641718/4840 [=========>....................] - ETA: 3s - loss: 10.4560 - mean\_absolute\_error: 2.45501767/4840 [=========>....................] - ETA: 2s - loss: 10.4468 - mean\_absolute\_error: 2.45431806/4840 [==========>...................] - ETA: 2s - loss: 10.4330 - mean\_absolute\_error: 2.45321847/4840 [==========>...................] - ETA: 2s - loss: 10.4245 - mean\_absolute\_error: 2.45171887/4840 [==========>...................] - ETA: 2s - loss: 10.4219 - mean\_absolute\_error: 2.45181926/4840 [==========>...................] - ETA: 2s - loss: 10.4193 - mean\_absolute\_error: 2.45101965/4840 [===========>..................] - ETA: 2s - loss: 10.4139 - mean\_absolute\_error: 2.44962008/4840 [===========>..................] - ETA: 2s - loss: 10.4184 - mean\_absolute\_error: 2.45062048/4840 [===========>..................] - ETA: 2s - loss: 10.4202 - mean\_absolute\_error: 2.45032090/4840 [===========>..................] - ETA: 2s - loss: 10.4292 - mean\_absolute\_error: 2.45142133/4840 [============>.................] - ETA: 2s - loss: 10.4419 - mean\_absolute\_error: 2.45282176/4840 [============>.................] - ETA: 2s - loss: 10.4408 - mean\_absolute\_error: 2.45312220/4840 [============>.................] - ETA: 2s - loss: 10.4276 - mean\_absolute\_error: 2.45122266/4840 [=============>................] - ETA: 2s - loss: 10.4072 - mean\_absolute\_error: 2.44912311/4840 [=============>................] - ETA: 2s - loss: 10.4095 - mean\_absolute\_error: 2.44842352/4840 [=============>................] - ETA: 2s - loss: 10.4077 - mean\_absolute\_error: 2.44802395/4840 [=============>................] - ETA: 2s - loss: 10.4171 - mean\_absolute\_error: 2.44982441/4840 [==============>...............] - ETA: 2s - loss: 10.4296 - mean\_absolute\_error: 2.45152483/4840 [==============>...............] - ETA: 2s - loss: 10.4295 - mean\_absolute\_error: 2.45142528/4840 [==============>...............] - ETA: 2s - loss: 10.4508 - mean\_absolute\_error: 2.45462574/4840 [==============>...............] - ETA: 2s - loss: 10.4592 - mean\_absolute\_error: 2.45522623/4840 [===============>..............] - ETA: 2s - loss: 10.4547 - mean\_absolute\_error: 2.45472672/4840 [===============>..............] - ETA: 2s - loss: 10.4554 - mean\_absolute\_error: 2.45472724/4840 [===============>..............] - ETA: 2s - loss: 10.4628 - mean\_absolute\_error: 2.45562775/4840 [================>.............] - ETA: 2s - loss: 10.4601 - mean\_absolute\_error: 2.45522826/4840 [================>.............] - ETA: 2s - loss: 10.4728 - mean\_absolute\_error: 2.45682880/4840 [================>.............] - ETA: 2s - loss: 10.4675 - mean\_absolute\_error: 2.45692932/4840 [=================>............] - ETA: 1s - loss: 10.4651 - mean\_absolute\_error: 2.45712982/4840 [=================>............] - ETA: 1s - loss: 10.4699 - mean\_absolute\_error: 2.45783033/4840 [=================>............] - ETA: 1s - loss: 10.4710 - mean\_absolute\_error: 2.45763087/4840 [==================>...........] - ETA: 1s - loss: 10.4627 - mean\_absolute\_error: 2.45623142/4840 [==================>...........] - ETA: 1s - loss: 10.4715 - mean\_absolute\_error: 2.45733190/4840 [==================>...........] - ETA: 1s - loss: 10.4614 - mean\_absolute\_error: 2.45613241/4840 [===================>..........] - ETA: 1s - loss: 10.4692 - mean\_absolute\_error: 2.45703290/4840 [===================>..........] - ETA: 1s - loss: 10.4712 - mean\_absolute\_error: 2.45773340/4840 [===================>..........] - ETA: 1s - loss: 10.4821 - mean\_absolute\_error: 2.45913391/4840 [====================>.........] - ETA: 1s - loss: 10.4813 - mean\_absolute\_error: 2.45883443/4840 [====================>.........] - ETA: 1s - loss: 10.4748 - mean\_absolute\_error: 2.45813494/4840 [====================>.........] - ETA: 1s - loss: 10.4774 - mean\_absolute\_error: 2.45853544/4840 [====================>.........] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.45923594/4840 [=====================>........] - ETA: 1s - loss: 10.4783 - mean\_absolute\_error: 2.45883642/4840 [=====================>........] - ETA: 1s - loss: 10.4882 - mean\_absolute\_error: 2.46043690/4840 [=====================>........] - ETA: 1s - loss: 10.4916 - mean\_absolute\_error: 2.46093740/4840 [======================>.......] - ETA: 1s - loss: 10.4875 - mean\_absolute\_error: 2.46043791/4840 [======================>.......] - ETA: 1s - loss: 10.4856 - mean\_absolute\_error: 2.46023840/4840 [======================>.......] - ETA: 1s - loss: 10.4855 - mean\_absolute\_error: 2.46033892/4840 [=======================>......] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.46083943/4840 [=======================>......] - ETA: 0s - loss: 10.4835 - mean\_absolute\_error: 2.46033996/4840 [=======================>......] - ETA: 0s - loss: 10.4846 - mean\_absolute\_error: 2.46034047/4840 [========================>.....] - ETA: 0s - loss: 10.4838 - mean\_absolute\_error: 2.46054099/4840 [========================>.....] - ETA: 0s - loss: 10.4783 - mean\_absolute\_error: 2.45984151/4840 [========================>.....] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.46074201/4840 [=========================>....] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.46054255/4840 [=========================>....] - ETA: 0s - loss: 10.4875 - mean\_absolute\_error: 2.46094306/4840 [=========================>....] - ETA: 0s - loss: 10.4872 - mean\_absolute\_error: 2.46084354/4840 [=========================>....] - ETA: 0s - loss: 10.4952 - mean\_absolute\_error: 2.46184405/4840 [==========================>...] - ETA: 0s - loss: 10.4971 - mean\_absolute\_error: 2.46224457/4840 [==========================>...] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.46184504/4840 [==========================>...] - ETA: 0s - loss: 10.4984 - mean\_absolute\_error: 2.46224553/4840 [===========================>..] - ETA: 0s - loss: 10.5042 - mean\_absolute\_error: 2.46314602/4840 [===========================>..] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46364650/4840 [===========================>..] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46334696/4840 [============================>.] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46324747/4840 [============================>.] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46314797/4840 [============================>.] - ETA: 0s - loss: 10.5082 - mean\_absolute\_error: 2.46334840/4840 [==============================] - 5s 1ms/step - loss: 10.5060 - mean\_absolute\_error: 2.4631 - val\_loss: 11.4747 - val\_mean\_absolute\_error: 2.5802  
Epoch 40/100  
 1/4840 [..............................] - ETA: 4s - loss: 8.3290 - mean\_absolute\_error: 2.1787 53/4840 [..............................] - ETA: 4s - loss: 10.9434 - mean\_absolute\_error: 2.4967 104/4840 [..............................] - ETA: 4s - loss: 11.0092 - mean\_absolute\_error: 2.5144 154/4840 [..............................] - ETA: 4s - loss: 10.8403 - mean\_absolute\_error: 2.4977 204/4840 [>.............................] - ETA: 4s - loss: 10.6921 - mean\_absolute\_error: 2.4761 256/4840 [>.............................] - ETA: 4s - loss: 10.6246 - mean\_absolute\_error: 2.4662 306/4840 [>.............................] - ETA: 4s - loss: 10.5981 - mean\_absolute\_error: 2.4653 358/4840 [=>............................] - ETA: 4s - loss: 10.4451 - mean\_absolute\_error: 2.4459 408/4840 [=>............................] - ETA: 4s - loss: 10.4030 - mean\_absolute\_error: 2.4422 463/4840 [=>............................] - ETA: 4s - loss: 10.4559 - mean\_absolute\_error: 2.4490 516/4840 [==>...........................] - ETA: 4s - loss: 10.5460 - mean\_absolute\_error: 2.4593 567/4840 [==>...........................] - ETA: 4s - loss: 10.4992 - mean\_absolute\_error: 2.4538 619/4840 [==>...........................] - ETA: 4s - loss: 10.5073 - mean\_absolute\_error: 2.4544 671/4840 [===>..........................] - ETA: 4s - loss: 10.4953 - mean\_absolute\_error: 2.4554 720/4840 [===>..........................] - ETA: 4s - loss: 10.4678 - mean\_absolute\_error: 2.4523 770/4840 [===>..........................] - ETA: 4s - loss: 10.4863 - mean\_absolute\_error: 2.4550 820/4840 [====>.........................] - ETA: 3s - loss: 10.4866 - mean\_absolute\_error: 2.4568 871/4840 [====>.........................] - ETA: 3s - loss: 10.4890 - mean\_absolute\_error: 2.4583 926/4840 [====>.........................] - ETA: 3s - loss: 10.4625 - mean\_absolute\_error: 2.4550 979/4840 [=====>........................] - ETA: 3s - loss: 10.4530 - mean\_absolute\_error: 2.45531028/4840 [=====>........................] - ETA: 3s - loss: 10.4301 - mean\_absolute\_error: 2.45191077/4840 [=====>........................] - ETA: 3s - loss: 10.4263 - mean\_absolute\_error: 2.45261125/4840 [=====>........................] - ETA: 3s - loss: 10.4131 - mean\_absolute\_error: 2.45111178/4840 [======>.......................] - ETA: 3s - loss: 10.4206 - mean\_absolute\_error: 2.45151225/4840 [======>.......................] - ETA: 3s - loss: 10.3971 - mean\_absolute\_error: 2.44871273/4840 [======>.......................] - ETA: 3s - loss: 10.3922 - mean\_absolute\_error: 2.44781322/4840 [=======>......................] - ETA: 3s - loss: 10.3886 - mean\_absolute\_error: 2.44641372/4840 [=======>......................] - ETA: 3s - loss: 10.3688 - mean\_absolute\_error: 2.44361423/4840 [=======>......................] - ETA: 3s - loss: 10.3760 - mean\_absolute\_error: 2.44451474/4840 [========>.....................] - ETA: 3s - loss: 10.3823 - mean\_absolute\_error: 2.44531529/4840 [========>.....................] - ETA: 3s - loss: 10.3709 - mean\_absolute\_error: 2.44351585/4840 [========>.....................] - ETA: 3s - loss: 10.3565 - mean\_absolute\_error: 2.44271638/4840 [=========>....................] - ETA: 3s - loss: 10.3653 - mean\_absolute\_error: 2.44491688/4840 [=========>....................] - ETA: 3s - loss: 10.3762 - mean\_absolute\_error: 2.44671741/4840 [=========>....................] - ETA: 3s - loss: 10.4037 - mean\_absolute\_error: 2.45061795/4840 [==========>...................] - ETA: 2s - loss: 10.4031 - mean\_absolute\_error: 2.45091847/4840 [==========>...................] - ETA: 2s - loss: 10.4113 - mean\_absolute\_error: 2.45161899/4840 [==========>...................] - ETA: 2s - loss: 10.4128 - mean\_absolute\_error: 2.45211948/4840 [===========>..................] - ETA: 2s - loss: 10.4118 - mean\_absolute\_error: 2.45232000/4840 [===========>..................] - ETA: 2s - loss: 10.4100 - mean\_absolute\_error: 2.45222054/4840 [===========>..................] - ETA: 2s - loss: 10.4085 - mean\_absolute\_error: 2.45182103/4840 [============>.................] - ETA: 2s - loss: 10.4063 - mean\_absolute\_error: 2.45152154/4840 [============>.................] - ETA: 2s - loss: 10.4096 - mean\_absolute\_error: 2.45132205/4840 [============>.................] - ETA: 2s - loss: 10.3967 - mean\_absolute\_error: 2.44922256/4840 [============>.................] - ETA: 2s - loss: 10.4011 - mean\_absolute\_error: 2.44942307/4840 [=============>................] - ETA: 2s - loss: 10.4029 - mean\_absolute\_error: 2.45042359/4840 [=============>................] - ETA: 2s - loss: 10.3977 - mean\_absolute\_error: 2.44942412/4840 [=============>................] - ETA: 2s - loss: 10.4037 - mean\_absolute\_error: 2.45012463/4840 [==============>...............] - ETA: 2s - loss: 10.4116 - mean\_absolute\_error: 2.45102513/4840 [==============>...............] - ETA: 2s - loss: 10.4213 - mean\_absolute\_error: 2.45292563/4840 [==============>...............] - ETA: 2s - loss: 10.4280 - mean\_absolute\_error: 2.45442615/4840 [===============>..............] - ETA: 2s - loss: 10.4200 - mean\_absolute\_error: 2.45352664/4840 [===============>..............] - ETA: 2s - loss: 10.4104 - mean\_absolute\_error: 2.45222717/4840 [===============>..............] - ETA: 2s - loss: 10.4091 - mean\_absolute\_error: 2.45242769/4840 [================>.............] - ETA: 2s - loss: 10.4231 - mean\_absolute\_error: 2.45412821/4840 [================>.............] - ETA: 1s - loss: 10.4260 - mean\_absolute\_error: 2.45432874/4840 [================>.............] - ETA: 1s - loss: 10.4300 - mean\_absolute\_error: 2.45472925/4840 [=================>............] - ETA: 1s - loss: 10.4449 - mean\_absolute\_error: 2.45662978/4840 [=================>............] - ETA: 1s - loss: 10.4488 - mean\_absolute\_error: 2.45683033/4840 [=================>............] - ETA: 1s - loss: 10.4463 - mean\_absolute\_error: 2.45693086/4840 [==================>...........] - ETA: 1s - loss: 10.4513 - mean\_absolute\_error: 2.45773138/4840 [==================>...........] - ETA: 1s - loss: 10.4573 - mean\_absolute\_error: 2.45873188/4840 [==================>...........] - ETA: 1s - loss: 10.4680 - mean\_absolute\_error: 2.46003238/4840 [===================>..........] - ETA: 1s - loss: 10.4789 - mean\_absolute\_error: 2.46103292/4840 [===================>..........] - ETA: 1s - loss: 10.4771 - mean\_absolute\_error: 2.46043344/4840 [===================>..........] - ETA: 1s - loss: 10.4825 - mean\_absolute\_error: 2.46133394/4840 [====================>.........] - ETA: 1s - loss: 10.4822 - mean\_absolute\_error: 2.46173447/4840 [====================>.........] - ETA: 1s - loss: 10.4915 - mean\_absolute\_error: 2.46243496/4840 [====================>.........] - ETA: 1s - loss: 10.4926 - mean\_absolute\_error: 2.46263549/4840 [====================>.........] - ETA: 1s - loss: 10.4899 - mean\_absolute\_error: 2.46213601/4840 [=====================>........] - ETA: 1s - loss: 10.4921 - mean\_absolute\_error: 2.46183652/4840 [=====================>........] - ETA: 1s - loss: 10.4960 - mean\_absolute\_error: 2.46283703/4840 [=====================>........] - ETA: 1s - loss: 10.4933 - mean\_absolute\_error: 2.46203754/4840 [======================>.......] - ETA: 1s - loss: 10.4918 - mean\_absolute\_error: 2.46183803/4840 [======================>.......] - ETA: 1s - loss: 10.5082 - mean\_absolute\_error: 2.46343852/4840 [======================>.......] - ETA: 0s - loss: 10.5028 - mean\_absolute\_error: 2.46293900/4840 [=======================>......] - ETA: 0s - loss: 10.5054 - mean\_absolute\_error: 2.46313951/4840 [=======================>......] - ETA: 0s - loss: 10.5155 - mean\_absolute\_error: 2.46434005/4840 [=======================>......] - ETA: 0s - loss: 10.5134 - mean\_absolute\_error: 2.46404056/4840 [========================>.....] - ETA: 0s - loss: 10.5142 - mean\_absolute\_error: 2.46424107/4840 [========================>.....] - ETA: 0s - loss: 10.5119 - mean\_absolute\_error: 2.46404157/4840 [========================>.....] - ETA: 0s - loss: 10.5185 - mean\_absolute\_error: 2.46464208/4840 [=========================>....] - ETA: 0s - loss: 10.5161 - mean\_absolute\_error: 2.46424260/4840 [=========================>....] - ETA: 0s - loss: 10.5147 - mean\_absolute\_error: 2.46424315/4840 [=========================>....] - ETA: 0s - loss: 10.5081 - mean\_absolute\_error: 2.46354364/4840 [==========================>...] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46284416/4840 [==========================>...] - ETA: 0s - loss: 10.5110 - mean\_absolute\_error: 2.46374470/4840 [==========================>...] - ETA: 0s - loss: 10.5088 - mean\_absolute\_error: 2.46354522/4840 [===========================>..] - ETA: 0s - loss: 10.5079 - mean\_absolute\_error: 2.46344572/4840 [===========================>..] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46324616/4840 [===========================>..] - ETA: 0s - loss: 10.5054 - mean\_absolute\_error: 2.46304663/4840 [===========================>..] - ETA: 0s - loss: 10.5032 - mean\_absolute\_error: 2.46264709/4840 [============================>.] - ETA: 0s - loss: 10.5112 - mean\_absolute\_error: 2.46344757/4840 [============================>.] - ETA: 0s - loss: 10.5074 - mean\_absolute\_error: 2.46294806/4840 [============================>.] - ETA: 0s - loss: 10.5118 - mean\_absolute\_error: 2.46354840/4840 [==============================] - 5s 1ms/step - loss: 10.5060 - mean\_absolute\_error: 2.4628 - val\_loss: 11.4717 - val\_mean\_absolute\_error: 2.5798  
Epoch 41/100  
 1/4840 [..............................] - ETA: 9s - loss: 14.1956 - mean\_absolute\_error: 2.7819 60/4840 [..............................] - ETA: 4s - loss: 10.2048 - mean\_absolute\_error: 2.4236 119/4840 [..............................] - ETA: 4s - loss: 10.2101 - mean\_absolute\_error: 2.4225 178/4840 [>.............................] - ETA: 3s - loss: 10.3582 - mean\_absolute\_error: 2.4446 236/4840 [>.............................] - ETA: 3s - loss: 10.5857 - mean\_absolute\_error: 2.4733 295/4840 [>.............................] - ETA: 3s - loss: 10.5866 - mean\_absolute\_error: 2.4762 354/4840 [=>............................] - ETA: 3s - loss: 10.5084 - mean\_absolute\_error: 2.4686 410/4840 [=>............................] - ETA: 3s - loss: 10.4574 - mean\_absolute\_error: 2.4621 468/4840 [=>............................] - ETA: 3s - loss: 10.4335 - mean\_absolute\_error: 2.4545 527/4840 [==>...........................] - ETA: 3s - loss: 10.3819 - mean\_absolute\_error: 2.4477 586/4840 [==>...........................] - ETA: 3s - loss: 10.3237 - mean\_absolute\_error: 2.4424 645/4840 [==>...........................] - ETA: 3s - loss: 10.3382 - mean\_absolute\_error: 2.4435 703/4840 [===>..........................] - ETA: 3s - loss: 10.3567 - mean\_absolute\_error: 2.4467 758/4840 [===>..........................] - ETA: 3s - loss: 10.3443 - mean\_absolute\_error: 2.4446 813/4840 [====>.........................] - ETA: 3s - loss: 10.3521 - mean\_absolute\_error: 2.4474 872/4840 [====>.........................] - ETA: 3s - loss: 10.3930 - mean\_absolute\_error: 2.4522 930/4840 [====>.........................] - ETA: 3s - loss: 10.4010 - mean\_absolute\_error: 2.4542 987/4840 [=====>........................] - ETA: 3s - loss: 10.3819 - mean\_absolute\_error: 2.45081046/4840 [=====>........................] - ETA: 3s - loss: 10.3783 - mean\_absolute\_error: 2.44971105/4840 [=====>........................] - ETA: 3s - loss: 10.4216 - mean\_absolute\_error: 2.45481164/4840 [======>.......................] - ETA: 3s - loss: 10.4404 - mean\_absolute\_error: 2.45631223/4840 [======>.......................] - ETA: 3s - loss: 10.4539 - mean\_absolute\_error: 2.45991282/4840 [======>.......................] - ETA: 3s - loss: 10.4623 - mean\_absolute\_error: 2.46181341/4840 [=======>......................] - ETA: 3s - loss: 10.4530 - mean\_absolute\_error: 2.46051400/4840 [=======>......................] - ETA: 2s - loss: 10.4510 - mean\_absolute\_error: 2.45961459/4840 [========>.....................] - ETA: 2s - loss: 10.4738 - mean\_absolute\_error: 2.46121517/4840 [========>.....................] - ETA: 2s - loss: 10.4714 - mean\_absolute\_error: 2.46101573/4840 [========>.....................] - ETA: 2s - loss: 10.4786 - mean\_absolute\_error: 2.46201630/4840 [=========>....................] - ETA: 2s - loss: 10.4830 - mean\_absolute\_error: 2.46271688/4840 [=========>....................] - ETA: 2s - loss: 10.4691 - mean\_absolute\_error: 2.46081748/4840 [=========>....................] - ETA: 2s - loss: 10.4504 - mean\_absolute\_error: 2.45921807/4840 [==========>...................] - ETA: 2s - loss: 10.4340 - mean\_absolute\_error: 2.45661866/4840 [==========>...................] - ETA: 2s - loss: 10.4460 - mean\_absolute\_error: 2.45811924/4840 [==========>...................] - ETA: 2s - loss: 10.4403 - mean\_absolute\_error: 2.45741983/4840 [===========>..................] - ETA: 2s - loss: 10.4544 - mean\_absolute\_error: 2.45862043/4840 [===========>..................] - ETA: 2s - loss: 10.4633 - mean\_absolute\_error: 2.45982103/4840 [============>.................] - ETA: 2s - loss: 10.4634 - mean\_absolute\_error: 2.45992162/4840 [============>.................] - ETA: 2s - loss: 10.4516 - mean\_absolute\_error: 2.45772222/4840 [============>.................] - ETA: 2s - loss: 10.4523 - mean\_absolute\_error: 2.45802281/4840 [=============>................] - ETA: 2s - loss: 10.4523 - mean\_absolute\_error: 2.45802341/4840 [=============>................] - ETA: 2s - loss: 10.4489 - mean\_absolute\_error: 2.45822398/4840 [=============>................] - ETA: 2s - loss: 10.4266 - mean\_absolute\_error: 2.45552457/4840 [==============>...............] - ETA: 2s - loss: 10.4318 - mean\_absolute\_error: 2.45582516/4840 [==============>...............] - ETA: 2s - loss: 10.4529 - mean\_absolute\_error: 2.45932574/4840 [==============>...............] - ETA: 1s - loss: 10.4506 - mean\_absolute\_error: 2.45792634/4840 [===============>..............] - ETA: 1s - loss: 10.4409 - mean\_absolute\_error: 2.45712692/4840 [===============>..............] - ETA: 1s - loss: 10.4485 - mean\_absolute\_error: 2.45782750/4840 [================>.............] - ETA: 1s - loss: 10.4550 - mean\_absolute\_error: 2.45852807/4840 [================>.............] - ETA: 1s - loss: 10.4432 - mean\_absolute\_error: 2.45682866/4840 [================>.............] - ETA: 1s - loss: 10.4419 - mean\_absolute\_error: 2.45622926/4840 [=================>............] - ETA: 1s - loss: 10.4464 - mean\_absolute\_error: 2.45702986/4840 [=================>............] - ETA: 1s - loss: 10.4615 - mean\_absolute\_error: 2.45833045/4840 [=================>............] - ETA: 1s - loss: 10.4594 - mean\_absolute\_error: 2.45753102/4840 [==================>...........] - ETA: 1s - loss: 10.4567 - mean\_absolute\_error: 2.45733162/4840 [==================>...........] - ETA: 1s - loss: 10.4656 - mean\_absolute\_error: 2.45853223/4840 [==================>...........] - ETA: 1s - loss: 10.4728 - mean\_absolute\_error: 2.45913282/4840 [===================>..........] - ETA: 1s - loss: 10.4742 - mean\_absolute\_error: 2.45933343/4840 [===================>..........] - ETA: 1s - loss: 10.4768 - mean\_absolute\_error: 2.45973402/4840 [====================>.........] - ETA: 1s - loss: 10.4650 - mean\_absolute\_error: 2.45813460/4840 [====================>.........] - ETA: 1s - loss: 10.4762 - mean\_absolute\_error: 2.45963519/4840 [====================>.........] - ETA: 1s - loss: 10.4776 - mean\_absolute\_error: 2.46073578/4840 [=====================>........] - ETA: 1s - loss: 10.4812 - mean\_absolute\_error: 2.46113638/4840 [=====================>........] - ETA: 1s - loss: 10.4875 - mean\_absolute\_error: 2.46213698/4840 [=====================>........] - ETA: 0s - loss: 10.4866 - mean\_absolute\_error: 2.46193758/4840 [======================>.......] - ETA: 0s - loss: 10.4873 - mean\_absolute\_error: 2.46183818/4840 [======================>.......] - ETA: 0s - loss: 10.4869 - mean\_absolute\_error: 2.46183877/4840 [=======================>......] - ETA: 0s - loss: 10.4863 - mean\_absolute\_error: 2.46143937/4840 [=======================>......] - ETA: 0s - loss: 10.4858 - mean\_absolute\_error: 2.46103994/4840 [=======================>......] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.46124054/4840 [========================>.....] - ETA: 0s - loss: 10.5005 - mean\_absolute\_error: 2.46274113/4840 [========================>.....] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46324172/4840 [========================>.....] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46294229/4840 [=========================>....] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46354289/4840 [=========================>....] - ETA: 0s - loss: 10.4977 - mean\_absolute\_error: 2.46244348/4840 [=========================>....] - ETA: 0s - loss: 10.4987 - mean\_absolute\_error: 2.46264408/4840 [==========================>...] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46174468/4840 [==========================>...] - ETA: 0s - loss: 10.4838 - mean\_absolute\_error: 2.46054528/4840 [===========================>..] - ETA: 0s - loss: 10.4844 - mean\_absolute\_error: 2.46054586/4840 [===========================>..] - ETA: 0s - loss: 10.4826 - mean\_absolute\_error: 2.46014646/4840 [===========================>..] - ETA: 0s - loss: 10.4849 - mean\_absolute\_error: 2.46034705/4840 [============================>.] - ETA: 0s - loss: 10.4932 - mean\_absolute\_error: 2.46114764/4840 [============================>.] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46184823/4840 [============================>.] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46244840/4840 [==============================] - 4s 901us/step - loss: 10.5052 - mean\_absolute\_error: 2.4622 - val\_loss: 11.4720 - val\_mean\_absolute\_error: 2.5809  
Epoch 42/100  
 1/4840 [..............................] - ETA: 9s - loss: 17.2962 - mean\_absolute\_error: 3.2858 60/4840 [..............................] - ETA: 4s - loss: 10.5407 - mean\_absolute\_error: 2.4851 118/4840 [..............................] - ETA: 4s - loss: 10.1989 - mean\_absolute\_error: 2.4305 178/4840 [>.............................] - ETA: 4s - loss: 10.3813 - mean\_absolute\_error: 2.4438 237/4840 [>.............................] - ETA: 3s - loss: 10.3582 - mean\_absolute\_error: 2.4390 295/4840 [>.............................] - ETA: 3s - loss: 10.3410 - mean\_absolute\_error: 2.4409 351/4840 [=>............................] - ETA: 3s - loss: 10.3522 - mean\_absolute\_error: 2.4420 402/4840 [=>............................] - ETA: 3s - loss: 10.3143 - mean\_absolute\_error: 2.4388 457/4840 [=>............................] - ETA: 3s - loss: 10.4087 - mean\_absolute\_error: 2.4510 515/4840 [==>...........................] - ETA: 3s - loss: 10.3933 - mean\_absolute\_error: 2.4476 571/4840 [==>...........................] - ETA: 3s - loss: 10.4156 - mean\_absolute\_error: 2.4544 628/4840 [==>...........................] - ETA: 3s - loss: 10.4904 - mean\_absolute\_error: 2.4648 684/4840 [===>..........................] - ETA: 3s - loss: 10.5277 - mean\_absolute\_error: 2.4697 743/4840 [===>..........................] - ETA: 3s - loss: 10.5032 - mean\_absolute\_error: 2.4663 803/4840 [===>..........................] - ETA: 3s - loss: 10.5092 - mean\_absolute\_error: 2.4680 862/4840 [====>.........................] - ETA: 3s - loss: 10.5308 - mean\_absolute\_error: 2.4709 920/4840 [====>.........................] - ETA: 3s - loss: 10.5647 - mean\_absolute\_error: 2.4761 979/4840 [=====>........................] - ETA: 3s - loss: 10.5439 - mean\_absolute\_error: 2.47311038/4840 [=====>........................] - ETA: 3s - loss: 10.5565 - mean\_absolute\_error: 2.47401098/4840 [=====>........................] - ETA: 3s - loss: 10.5663 - mean\_absolute\_error: 2.47541157/4840 [======>.......................] - ETA: 3s - loss: 10.5664 - mean\_absolute\_error: 2.47611212/4840 [======>.......................] - ETA: 3s - loss: 10.5650 - mean\_absolute\_error: 2.47761269/4840 [======>.......................] - ETA: 3s - loss: 10.5666 - mean\_absolute\_error: 2.47611316/4840 [=======>......................] - ETA: 3s - loss: 10.5572 - mean\_absolute\_error: 2.47421375/4840 [=======>......................] - ETA: 3s - loss: 10.5823 - mean\_absolute\_error: 2.47901433/4840 [=======>......................] - ETA: 3s - loss: 10.5799 - mean\_absolute\_error: 2.47841487/4840 [========>.....................] - ETA: 2s - loss: 10.5896 - mean\_absolute\_error: 2.47901547/4840 [========>.....................] - ETA: 2s - loss: 10.5833 - mean\_absolute\_error: 2.47861607/4840 [========>.....................] - ETA: 2s - loss: 10.5891 - mean\_absolute\_error: 2.47981667/4840 [=========>....................] - ETA: 2s - loss: 10.5808 - mean\_absolute\_error: 2.47891726/4840 [=========>....................] - ETA: 2s - loss: 10.5932 - mean\_absolute\_error: 2.48041785/4840 [==========>...................] - ETA: 2s - loss: 10.5872 - mean\_absolute\_error: 2.47951842/4840 [==========>...................] - ETA: 2s - loss: 10.5583 - mean\_absolute\_error: 2.47571901/4840 [==========>...................] - ETA: 2s - loss: 10.5566 - mean\_absolute\_error: 2.47481960/4840 [===========>..................] - ETA: 2s - loss: 10.5355 - mean\_absolute\_error: 2.47122020/4840 [===========>..................] - ETA: 2s - loss: 10.5440 - mean\_absolute\_error: 2.47222079/4840 [===========>..................] - ETA: 2s - loss: 10.5407 - mean\_absolute\_error: 2.47212136/4840 [============>.................] - ETA: 2s - loss: 10.5446 - mean\_absolute\_error: 2.47262194/4840 [============>.................] - ETA: 2s - loss: 10.5620 - mean\_absolute\_error: 2.47472252/4840 [============>.................] - ETA: 2s - loss: 10.5680 - mean\_absolute\_error: 2.47522310/4840 [=============>................] - ETA: 2s - loss: 10.5686 - mean\_absolute\_error: 2.47612369/4840 [=============>................] - ETA: 2s - loss: 10.5572 - mean\_absolute\_error: 2.47412427/4840 [==============>...............] - ETA: 2s - loss: 10.5586 - mean\_absolute\_error: 2.47392487/4840 [==============>...............] - ETA: 2s - loss: 10.5369 - mean\_absolute\_error: 2.47112545/4840 [==============>...............] - ETA: 2s - loss: 10.5393 - mean\_absolute\_error: 2.47092602/4840 [===============>..............] - ETA: 1s - loss: 10.5404 - mean\_absolute\_error: 2.47112659/4840 [===============>..............] - ETA: 1s - loss: 10.5414 - mean\_absolute\_error: 2.47102718/4840 [===============>..............] - ETA: 1s - loss: 10.5326 - mean\_absolute\_error: 2.47032777/4840 [================>.............] - ETA: 1s - loss: 10.5322 - mean\_absolute\_error: 2.46992835/4840 [================>.............] - ETA: 1s - loss: 10.5427 - mean\_absolute\_error: 2.47122893/4840 [================>.............] - ETA: 1s - loss: 10.5199 - mean\_absolute\_error: 2.46842952/4840 [=================>............] - ETA: 1s - loss: 10.5119 - mean\_absolute\_error: 2.46743008/4840 [=================>............] - ETA: 1s - loss: 10.5117 - mean\_absolute\_error: 2.46713065/4840 [=================>............] - ETA: 1s - loss: 10.5048 - mean\_absolute\_error: 2.46653125/4840 [==================>...........] - ETA: 1s - loss: 10.5101 - mean\_absolute\_error: 2.46693184/4840 [==================>...........] - ETA: 1s - loss: 10.5123 - mean\_absolute\_error: 2.46763243/4840 [===================>..........] - ETA: 1s - loss: 10.5200 - mean\_absolute\_error: 2.46843302/4840 [===================>..........] - ETA: 1s - loss: 10.5230 - mean\_absolute\_error: 2.46843361/4840 [===================>..........] - ETA: 1s - loss: 10.5142 - mean\_absolute\_error: 2.46713420/4840 [====================>.........] - ETA: 1s - loss: 10.5237 - mean\_absolute\_error: 2.46853478/4840 [====================>.........] - ETA: 1s - loss: 10.5201 - mean\_absolute\_error: 2.46813537/4840 [====================>.........] - ETA: 1s - loss: 10.5231 - mean\_absolute\_error: 2.46903594/4840 [=====================>........] - ETA: 1s - loss: 10.5169 - mean\_absolute\_error: 2.46793651/4840 [=====================>........] - ETA: 1s - loss: 10.5120 - mean\_absolute\_error: 2.46683710/4840 [=====================>........] - ETA: 0s - loss: 10.5170 - mean\_absolute\_error: 2.46723767/4840 [======================>.......] - ETA: 0s - loss: 10.5156 - mean\_absolute\_error: 2.46723827/4840 [======================>.......] - ETA: 0s - loss: 10.5177 - mean\_absolute\_error: 2.46763887/4840 [=======================>......] - ETA: 0s - loss: 10.5199 - mean\_absolute\_error: 2.46753946/4840 [=======================>......] - ETA: 0s - loss: 10.5151 - mean\_absolute\_error: 2.46664006/4840 [=======================>......] - ETA: 0s - loss: 10.5206 - mean\_absolute\_error: 2.46754065/4840 [========================>.....] - ETA: 0s - loss: 10.5236 - mean\_absolute\_error: 2.46774125/4840 [========================>.....] - ETA: 0s - loss: 10.5211 - mean\_absolute\_error: 2.46754183/4840 [========================>.....] - ETA: 0s - loss: 10.5158 - mean\_absolute\_error: 2.46664243/4840 [=========================>....] - ETA: 0s - loss: 10.5186 - mean\_absolute\_error: 2.46694301/4840 [=========================>....] - ETA: 0s - loss: 10.5135 - mean\_absolute\_error: 2.46624359/4840 [==========================>...] - ETA: 0s - loss: 10.5102 - mean\_absolute\_error: 2.46594418/4840 [==========================>...] - ETA: 0s - loss: 10.5143 - mean\_absolute\_error: 2.46624475/4840 [==========================>...] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46564534/4840 [===========================>..] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46474590/4840 [===========================>..] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46394646/4840 [===========================>..] - ETA: 0s - loss: 10.4984 - mean\_absolute\_error: 2.46384701/4840 [============================>.] - ETA: 0s - loss: 10.4996 - mean\_absolute\_error: 2.46384757/4840 [============================>.] - ETA: 0s - loss: 10.4988 - mean\_absolute\_error: 2.46364813/4840 [============================>.] - ETA: 0s - loss: 10.5016 - mean\_absolute\_error: 2.46384840/4840 [==============================] - 4s 915us/step - loss: 10.5045 - mean\_absolute\_error: 2.4642 - val\_loss: 11.4741 - val\_mean\_absolute\_error: 2.5795  
Epoch 43/100  
 1/4840 [..............................] - ETA: 9s - loss: 8.5509 - mean\_absolute\_error: 2.2174 60/4840 [..............................] - ETA: 4s - loss: 9.9965 - mean\_absolute\_error: 2.3901 118/4840 [..............................] - ETA: 4s - loss: 10.3373 - mean\_absolute\_error: 2.4440 177/4840 [>.............................] - ETA: 4s - loss: 10.4900 - mean\_absolute\_error: 2.4710 235/4840 [>.............................] - ETA: 3s - loss: 10.5358 - mean\_absolute\_error: 2.4839 292/4840 [>.............................] - ETA: 3s - loss: 10.4567 - mean\_absolute\_error: 2.4708 350/4840 [=>............................] - ETA: 3s - loss: 10.3770 - mean\_absolute\_error: 2.4571 409/4840 [=>............................] - ETA: 3s - loss: 10.2898 - mean\_absolute\_error: 2.4395 466/4840 [=>............................] - ETA: 3s - loss: 10.3048 - mean\_absolute\_error: 2.4417 525/4840 [==>...........................] - ETA: 3s - loss: 10.3730 - mean\_absolute\_error: 2.4486 583/4840 [==>...........................] - ETA: 3s - loss: 10.4443 - mean\_absolute\_error: 2.4601 642/4840 [==>...........................] - ETA: 3s - loss: 10.4947 - mean\_absolute\_error: 2.4667 700/4840 [===>..........................] - ETA: 3s - loss: 10.4775 - mean\_absolute\_error: 2.4634 750/4840 [===>..........................] - ETA: 3s - loss: 10.4444 - mean\_absolute\_error: 2.4596 807/4840 [====>.........................] - ETA: 3s - loss: 10.4463 - mean\_absolute\_error: 2.4579 866/4840 [====>.........................] - ETA: 3s - loss: 10.4469 - mean\_absolute\_error: 2.4580 924/4840 [====>.........................] - ETA: 3s - loss: 10.4637 - mean\_absolute\_error: 2.4587 980/4840 [=====>........................] - ETA: 3s - loss: 10.4515 - mean\_absolute\_error: 2.45701037/4840 [=====>........................] - ETA: 3s - loss: 10.4570 - mean\_absolute\_error: 2.45751095/4840 [=====>........................] - ETA: 3s - loss: 10.4766 - mean\_absolute\_error: 2.45831152/4840 [======>.......................] - ETA: 3s - loss: 10.5110 - mean\_absolute\_error: 2.46341210/4840 [======>.......................] - ETA: 3s - loss: 10.5177 - mean\_absolute\_error: 2.46271266/4840 [======>.......................] - ETA: 3s - loss: 10.5183 - mean\_absolute\_error: 2.46361325/4840 [=======>......................] - ETA: 3s - loss: 10.4774 - mean\_absolute\_error: 2.45771384/4840 [=======>......................] - ETA: 3s - loss: 10.4642 - mean\_absolute\_error: 2.45691443/4840 [=======>......................] - ETA: 2s - loss: 10.4731 - mean\_absolute\_error: 2.45771501/4840 [========>.....................] - ETA: 2s - loss: 10.4688 - mean\_absolute\_error: 2.45791559/4840 [========>.....................] - ETA: 2s - loss: 10.4776 - mean\_absolute\_error: 2.45941617/4840 [=========>....................] - ETA: 2s - loss: 10.4895 - mean\_absolute\_error: 2.46171675/4840 [=========>....................] - ETA: 2s - loss: 10.4604 - mean\_absolute\_error: 2.45771732/4840 [=========>....................] - ETA: 2s - loss: 10.4787 - mean\_absolute\_error: 2.46001788/4840 [==========>...................] - ETA: 2s - loss: 10.5006 - mean\_absolute\_error: 2.46291846/4840 [==========>...................] - ETA: 2s - loss: 10.5090 - mean\_absolute\_error: 2.46311904/4840 [==========>...................] - ETA: 2s - loss: 10.5115 - mean\_absolute\_error: 2.46261961/4840 [===========>..................] - ETA: 2s - loss: 10.4954 - mean\_absolute\_error: 2.46112019/4840 [===========>..................] - ETA: 2s - loss: 10.4998 - mean\_absolute\_error: 2.46212077/4840 [===========>..................] - ETA: 2s - loss: 10.5086 - mean\_absolute\_error: 2.46312134/4840 [============>.................] - ETA: 2s - loss: 10.4935 - mean\_absolute\_error: 2.46122191/4840 [============>.................] - ETA: 2s - loss: 10.4812 - mean\_absolute\_error: 2.45912250/4840 [============>.................] - ETA: 2s - loss: 10.4748 - mean\_absolute\_error: 2.45852309/4840 [=============>................] - ETA: 2s - loss: 10.4674 - mean\_absolute\_error: 2.45742368/4840 [=============>................] - ETA: 2s - loss: 10.4609 - mean\_absolute\_error: 2.45702427/4840 [==============>...............] - ETA: 2s - loss: 10.4717 - mean\_absolute\_error: 2.45942485/4840 [==============>...............] - ETA: 2s - loss: 10.4708 - mean\_absolute\_error: 2.45952544/4840 [==============>...............] - ETA: 1s - loss: 10.4737 - mean\_absolute\_error: 2.45992603/4840 [===============>..............] - ETA: 1s - loss: 10.4598 - mean\_absolute\_error: 2.45842662/4840 [===============>..............] - ETA: 1s - loss: 10.4754 - mean\_absolute\_error: 2.45952719/4840 [===============>..............] - ETA: 1s - loss: 10.4710 - mean\_absolute\_error: 2.45892765/4840 [================>.............] - ETA: 1s - loss: 10.4665 - mean\_absolute\_error: 2.45852802/4840 [================>.............] - ETA: 1s - loss: 10.4695 - mean\_absolute\_error: 2.45882839/4840 [================>.............] - ETA: 1s - loss: 10.4716 - mean\_absolute\_error: 2.45862877/4840 [================>.............] - ETA: 1s - loss: 10.4674 - mean\_absolute\_error: 2.45832934/4840 [=================>............] - ETA: 1s - loss: 10.4663 - mean\_absolute\_error: 2.45822990/4840 [=================>............] - ETA: 1s - loss: 10.4712 - mean\_absolute\_error: 2.45883047/4840 [=================>............] - ETA: 1s - loss: 10.4754 - mean\_absolute\_error: 2.45903105/4840 [==================>...........] - ETA: 1s - loss: 10.4890 - mean\_absolute\_error: 2.46083161/4840 [==================>...........] - ETA: 1s - loss: 10.4902 - mean\_absolute\_error: 2.46073217/4840 [==================>...........] - ETA: 1s - loss: 10.4904 - mean\_absolute\_error: 2.46063275/4840 [===================>..........] - ETA: 1s - loss: 10.4782 - mean\_absolute\_error: 2.45903333/4840 [===================>..........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.46073392/4840 [====================>.........] - ETA: 1s - loss: 10.4874 - mean\_absolute\_error: 2.46043450/4840 [====================>.........] - ETA: 1s - loss: 10.4756 - mean\_absolute\_error: 2.45893508/4840 [====================>.........] - ETA: 1s - loss: 10.4748 - mean\_absolute\_error: 2.45893566/4840 [=====================>........] - ETA: 1s - loss: 10.4840 - mean\_absolute\_error: 2.45983625/4840 [=====================>........] - ETA: 1s - loss: 10.4808 - mean\_absolute\_error: 2.45943685/4840 [=====================>........] - ETA: 1s - loss: 10.4805 - mean\_absolute\_error: 2.45923743/4840 [======================>.......] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46053802/4840 [======================>.......] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46143862/4840 [======================>.......] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46183922/4840 [=======================>......] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46193980/4840 [=======================>......] - ETA: 0s - loss: 10.5053 - mean\_absolute\_error: 2.46274037/4840 [========================>.....] - ETA: 0s - loss: 10.4957 - mean\_absolute\_error: 2.46114094/4840 [========================>.....] - ETA: 0s - loss: 10.5020 - mean\_absolute\_error: 2.46204153/4840 [========================>.....] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46224213/4840 [=========================>....] - ETA: 0s - loss: 10.4965 - mean\_absolute\_error: 2.46134273/4840 [=========================>....] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46294329/4840 [=========================>....] - ETA: 0s - loss: 10.5038 - mean\_absolute\_error: 2.46264386/4840 [==========================>...] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46234445/4840 [==========================>...] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46214505/4840 [==========================>...] - ETA: 0s - loss: 10.4981 - mean\_absolute\_error: 2.46174565/4840 [===========================>..] - ETA: 0s - loss: 10.5053 - mean\_absolute\_error: 2.46284626/4840 [===========================>..] - ETA: 0s - loss: 10.5081 - mean\_absolute\_error: 2.46324686/4840 [============================>.] - ETA: 0s - loss: 10.5135 - mean\_absolute\_error: 2.46404745/4840 [============================>.] - ETA: 0s - loss: 10.5166 - mean\_absolute\_error: 2.46444804/4840 [============================>.] - ETA: 0s - loss: 10.5093 - mean\_absolute\_error: 2.46334840/4840 [==============================] - 4s 927us/step - loss: 10.5047 - mean\_absolute\_error: 2.4624 - val\_loss: 11.4772 - val\_mean\_absolute\_error: 2.5797  
Epoch 44/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.4674 - mean\_absolute\_error: 2.2517 60/4840 [..............................] - ETA: 4s - loss: 10.3981 - mean\_absolute\_error: 2.4463 119/4840 [..............................] - ETA: 4s - loss: 10.4546 - mean\_absolute\_error: 2.4541 178/4840 [>.............................] - ETA: 3s - loss: 10.4875 - mean\_absolute\_error: 2.4563 238/4840 [>.............................] - ETA: 3s - loss: 10.5266 - mean\_absolute\_error: 2.4640 296/4840 [>.............................] - ETA: 3s - loss: 10.5034 - mean\_absolute\_error: 2.4656 356/4840 [=>............................] - ETA: 3s - loss: 10.5347 - mean\_absolute\_error: 2.4665 413/4840 [=>............................] - ETA: 3s - loss: 10.4321 - mean\_absolute\_error: 2.4541 472/4840 [=>............................] - ETA: 3s - loss: 10.4762 - mean\_absolute\_error: 2.4612 530/4840 [==>...........................] - ETA: 3s - loss: 10.4742 - mean\_absolute\_error: 2.4616 589/4840 [==>...........................] - ETA: 3s - loss: 10.4973 - mean\_absolute\_error: 2.4652 648/4840 [===>..........................] - ETA: 3s - loss: 10.4451 - mean\_absolute\_error: 2.4589 707/4840 [===>..........................] - ETA: 3s - loss: 10.4575 - mean\_absolute\_error: 2.4597 766/4840 [===>..........................] - ETA: 3s - loss: 10.4577 - mean\_absolute\_error: 2.4591 826/4840 [====>.........................] - ETA: 3s - loss: 10.4589 - mean\_absolute\_error: 2.4563 885/4840 [====>.........................] - ETA: 3s - loss: 10.4592 - mean\_absolute\_error: 2.4574 944/4840 [====>.........................] - ETA: 3s - loss: 10.4697 - mean\_absolute\_error: 2.45781002/4840 [=====>........................] - ETA: 3s - loss: 10.4890 - mean\_absolute\_error: 2.46021060/4840 [=====>........................] - ETA: 3s - loss: 10.4701 - mean\_absolute\_error: 2.45701119/4840 [=====>........................] - ETA: 3s - loss: 10.4578 - mean\_absolute\_error: 2.45641177/4840 [======>.......................] - ETA: 3s - loss: 10.4746 - mean\_absolute\_error: 2.45701234/4840 [======>.......................] - ETA: 3s - loss: 10.4911 - mean\_absolute\_error: 2.45951293/4840 [=======>......................] - ETA: 3s - loss: 10.4648 - mean\_absolute\_error: 2.45521352/4840 [=======>......................] - ETA: 2s - loss: 10.4666 - mean\_absolute\_error: 2.45531412/4840 [=======>......................] - ETA: 2s - loss: 10.4834 - mean\_absolute\_error: 2.45671471/4840 [========>.....................] - ETA: 2s - loss: 10.4788 - mean\_absolute\_error: 2.45571527/4840 [========>.....................] - ETA: 2s - loss: 10.4855 - mean\_absolute\_error: 2.45561582/4840 [========>.....................] - ETA: 2s - loss: 10.4918 - mean\_absolute\_error: 2.45761638/4840 [=========>....................] - ETA: 2s - loss: 10.4988 - mean\_absolute\_error: 2.45831695/4840 [=========>....................] - ETA: 2s - loss: 10.5169 - mean\_absolute\_error: 2.46111752/4840 [=========>....................] - ETA: 2s - loss: 10.5266 - mean\_absolute\_error: 2.46271810/4840 [==========>...................] - ETA: 2s - loss: 10.5531 - mean\_absolute\_error: 2.46621869/4840 [==========>...................] - ETA: 2s - loss: 10.5469 - mean\_absolute\_error: 2.46451928/4840 [==========>...................] - ETA: 2s - loss: 10.5299 - mean\_absolute\_error: 2.46261987/4840 [===========>..................] - ETA: 2s - loss: 10.5213 - mean\_absolute\_error: 2.46262047/4840 [===========>..................] - ETA: 2s - loss: 10.5165 - mean\_absolute\_error: 2.46232104/4840 [============>.................] - ETA: 2s - loss: 10.5168 - mean\_absolute\_error: 2.46342162/4840 [============>.................] - ETA: 2s - loss: 10.5352 - mean\_absolute\_error: 2.46602221/4840 [============>.................] - ETA: 2s - loss: 10.5366 - mean\_absolute\_error: 2.46602281/4840 [=============>................] - ETA: 2s - loss: 10.5311 - mean\_absolute\_error: 2.46572340/4840 [=============>................] - ETA: 2s - loss: 10.5309 - mean\_absolute\_error: 2.46592399/4840 [=============>................] - ETA: 2s - loss: 10.5180 - mean\_absolute\_error: 2.46432458/4840 [==============>...............] - ETA: 2s - loss: 10.5209 - mean\_absolute\_error: 2.46552516/4840 [==============>...............] - ETA: 2s - loss: 10.5269 - mean\_absolute\_error: 2.46672574/4840 [==============>...............] - ETA: 1s - loss: 10.5164 - mean\_absolute\_error: 2.46542634/4840 [===============>..............] - ETA: 1s - loss: 10.5084 - mean\_absolute\_error: 2.46422692/4840 [===============>..............] - ETA: 1s - loss: 10.5040 - mean\_absolute\_error: 2.46362748/4840 [================>.............] - ETA: 1s - loss: 10.4966 - mean\_absolute\_error: 2.46262804/4840 [================>.............] - ETA: 1s - loss: 10.5010 - mean\_absolute\_error: 2.46272861/4840 [================>.............] - ETA: 1s - loss: 10.5052 - mean\_absolute\_error: 2.46272919/4840 [=================>............] - ETA: 1s - loss: 10.5152 - mean\_absolute\_error: 2.46412979/4840 [=================>............] - ETA: 1s - loss: 10.5191 - mean\_absolute\_error: 2.46493038/4840 [=================>............] - ETA: 1s - loss: 10.5162 - mean\_absolute\_error: 2.46433098/4840 [==================>...........] - ETA: 1s - loss: 10.5234 - mean\_absolute\_error: 2.46533157/4840 [==================>...........] - ETA: 1s - loss: 10.5164 - mean\_absolute\_error: 2.46473217/4840 [==================>...........] - ETA: 1s - loss: 10.5154 - mean\_absolute\_error: 2.46483275/4840 [===================>..........] - ETA: 1s - loss: 10.5134 - mean\_absolute\_error: 2.46493333/4840 [===================>..........] - ETA: 1s - loss: 10.5046 - mean\_absolute\_error: 2.46373391/4840 [====================>.........] - ETA: 1s - loss: 10.5080 - mean\_absolute\_error: 2.46403450/4840 [====================>.........] - ETA: 1s - loss: 10.5150 - mean\_absolute\_error: 2.46483508/4840 [====================>.........] - ETA: 1s - loss: 10.5030 - mean\_absolute\_error: 2.46323565/4840 [=====================>........] - ETA: 1s - loss: 10.5068 - mean\_absolute\_error: 2.46363622/4840 [=====================>........] - ETA: 1s - loss: 10.5027 - mean\_absolute\_error: 2.46293681/4840 [=====================>........] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46273740/4840 [======================>.......] - ETA: 0s - loss: 10.4947 - mean\_absolute\_error: 2.46163800/4840 [======================>.......] - ETA: 0s - loss: 10.4946 - mean\_absolute\_error: 2.46153858/4840 [======================>.......] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.46123914/4840 [=======================>......] - ETA: 0s - loss: 10.4939 - mean\_absolute\_error: 2.46103971/4840 [=======================>......] - ETA: 0s - loss: 10.4943 - mean\_absolute\_error: 2.46084030/4840 [=======================>......] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46174089/4840 [========================>.....] - ETA: 0s - loss: 10.4945 - mean\_absolute\_error: 2.46114148/4840 [========================>.....] - ETA: 0s - loss: 10.4990 - mean\_absolute\_error: 2.46174208/4840 [=========================>....] - ETA: 0s - loss: 10.4939 - mean\_absolute\_error: 2.46094267/4840 [=========================>....] - ETA: 0s - loss: 10.4926 - mean\_absolute\_error: 2.46084327/4840 [=========================>....] - ETA: 0s - loss: 10.4869 - mean\_absolute\_error: 2.46024385/4840 [==========================>...] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46084444/4840 [==========================>...] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.46044504/4840 [==========================>...] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46164560/4840 [===========================>..] - ETA: 0s - loss: 10.4922 - mean\_absolute\_error: 2.46074618/4840 [===========================>..] - ETA: 0s - loss: 10.5046 - mean\_absolute\_error: 2.46214677/4840 [===========================>..] - ETA: 0s - loss: 10.5068 - mean\_absolute\_error: 2.46254736/4840 [============================>.] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46214795/4840 [============================>.] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46184840/4840 [==============================] - 4s 904us/step - loss: 10.5045 - mean\_absolute\_error: 2.4623 - val\_loss: 11.4786 - val\_mean\_absolute\_error: 2.5803  
Epoch 45/100  
 1/4840 [..............................] - ETA: 4s - loss: 8.9111 - mean\_absolute\_error: 2.3530 59/4840 [..............................] - ETA: 4s - loss: 10.7914 - mean\_absolute\_error: 2.4880 118/4840 [..............................] - ETA: 4s - loss: 10.6873 - mean\_absolute\_error: 2.4791 177/4840 [>.............................] - ETA: 4s - loss: 10.4339 - mean\_absolute\_error: 2.4467 236/4840 [>.............................] - ETA: 3s - loss: 10.2985 - mean\_absolute\_error: 2.4310 294/4840 [>.............................] - ETA: 3s - loss: 10.2949 - mean\_absolute\_error: 2.4290 355/4840 [=>............................] - ETA: 3s - loss: 10.1951 - mean\_absolute\_error: 2.4172 412/4840 [=>............................] - ETA: 3s - loss: 10.2586 - mean\_absolute\_error: 2.4261 472/4840 [=>............................] - ETA: 3s - loss: 10.3138 - mean\_absolute\_error: 2.4355 531/4840 [==>...........................] - ETA: 3s - loss: 10.2972 - mean\_absolute\_error: 2.4321 591/4840 [==>...........................] - ETA: 3s - loss: 10.3333 - mean\_absolute\_error: 2.4391 650/4840 [===>..........................] - ETA: 3s - loss: 10.3903 - mean\_absolute\_error: 2.4457 708/4840 [===>..........................] - ETA: 3s - loss: 10.3565 - mean\_absolute\_error: 2.4411 765/4840 [===>..........................] - ETA: 3s - loss: 10.3825 - mean\_absolute\_error: 2.4424 822/4840 [====>.........................] - ETA: 3s - loss: 10.3939 - mean\_absolute\_error: 2.4426 880/4840 [====>.........................] - ETA: 3s - loss: 10.4231 - mean\_absolute\_error: 2.4464 939/4840 [====>.........................] - ETA: 3s - loss: 10.4169 - mean\_absolute\_error: 2.4455 997/4840 [=====>........................] - ETA: 3s - loss: 10.4323 - mean\_absolute\_error: 2.44911055/4840 [=====>........................] - ETA: 3s - loss: 10.4291 - mean\_absolute\_error: 2.44971114/4840 [=====>........................] - ETA: 3s - loss: 10.4593 - mean\_absolute\_error: 2.45371171/4840 [======>.......................] - ETA: 3s - loss: 10.4604 - mean\_absolute\_error: 2.45331229/4840 [======>.......................] - ETA: 3s - loss: 10.4823 - mean\_absolute\_error: 2.45601288/4840 [======>.......................] - ETA: 3s - loss: 10.4691 - mean\_absolute\_error: 2.45501347/4840 [=======>......................] - ETA: 3s - loss: 10.4910 - mean\_absolute\_error: 2.45881407/4840 [=======>......................] - ETA: 2s - loss: 10.4866 - mean\_absolute\_error: 2.46001466/4840 [========>.....................] - ETA: 2s - loss: 10.4881 - mean\_absolute\_error: 2.45911524/4840 [========>.....................] - ETA: 2s - loss: 10.5094 - mean\_absolute\_error: 2.46151583/4840 [========>.....................] - ETA: 2s - loss: 10.5034 - mean\_absolute\_error: 2.46041643/4840 [=========>....................] - ETA: 2s - loss: 10.5047 - mean\_absolute\_error: 2.46061703/4840 [=========>....................] - ETA: 2s - loss: 10.5198 - mean\_absolute\_error: 2.46331761/4840 [=========>....................] - ETA: 2s - loss: 10.5067 - mean\_absolute\_error: 2.46091819/4840 [==========>...................] - ETA: 2s - loss: 10.5135 - mean\_absolute\_error: 2.46141877/4840 [==========>...................] - ETA: 2s - loss: 10.5119 - mean\_absolute\_error: 2.46181937/4840 [===========>..................] - ETA: 2s - loss: 10.4920 - mean\_absolute\_error: 2.45981994/4840 [===========>..................] - ETA: 2s - loss: 10.4927 - mean\_absolute\_error: 2.46072053/4840 [===========>..................] - ETA: 2s - loss: 10.4993 - mean\_absolute\_error: 2.46142113/4840 [============>.................] - ETA: 2s - loss: 10.4942 - mean\_absolute\_error: 2.46132171/4840 [============>.................] - ETA: 2s - loss: 10.4884 - mean\_absolute\_error: 2.46102232/4840 [============>.................] - ETA: 2s - loss: 10.4911 - mean\_absolute\_error: 2.46182289/4840 [=============>................] - ETA: 2s - loss: 10.4822 - mean\_absolute\_error: 2.46082347/4840 [=============>................] - ETA: 2s - loss: 10.4958 - mean\_absolute\_error: 2.46262406/4840 [=============>................] - ETA: 2s - loss: 10.5008 - mean\_absolute\_error: 2.46292464/4840 [==============>...............] - ETA: 2s - loss: 10.5021 - mean\_absolute\_error: 2.46342524/4840 [==============>...............] - ETA: 1s - loss: 10.5037 - mean\_absolute\_error: 2.46352583/4840 [===============>..............] - ETA: 1s - loss: 10.5112 - mean\_absolute\_error: 2.46522642/4840 [===============>..............] - ETA: 1s - loss: 10.5128 - mean\_absolute\_error: 2.46542702/4840 [===============>..............] - ETA: 1s - loss: 10.5106 - mean\_absolute\_error: 2.46532762/4840 [================>.............] - ETA: 1s - loss: 10.5038 - mean\_absolute\_error: 2.46462820/4840 [================>.............] - ETA: 1s - loss: 10.5070 - mean\_absolute\_error: 2.46462879/4840 [================>.............] - ETA: 1s - loss: 10.5088 - mean\_absolute\_error: 2.46472939/4840 [=================>............] - ETA: 1s - loss: 10.5106 - mean\_absolute\_error: 2.46472998/4840 [=================>............] - ETA: 1s - loss: 10.5145 - mean\_absolute\_error: 2.46563057/4840 [=================>............] - ETA: 1s - loss: 10.5143 - mean\_absolute\_error: 2.46543113/4840 [==================>...........] - ETA: 1s - loss: 10.5159 - mean\_absolute\_error: 2.46553171/4840 [==================>...........] - ETA: 1s - loss: 10.5179 - mean\_absolute\_error: 2.46603229/4840 [===================>..........] - ETA: 1s - loss: 10.5230 - mean\_absolute\_error: 2.46693288/4840 [===================>..........] - ETA: 1s - loss: 10.5136 - mean\_absolute\_error: 2.46593347/4840 [===================>..........] - ETA: 1s - loss: 10.5133 - mean\_absolute\_error: 2.46603407/4840 [====================>.........] - ETA: 1s - loss: 10.5071 - mean\_absolute\_error: 2.46543464/4840 [====================>.........] - ETA: 1s - loss: 10.5106 - mean\_absolute\_error: 2.46603523/4840 [====================>.........] - ETA: 1s - loss: 10.5139 - mean\_absolute\_error: 2.46643580/4840 [=====================>........] - ETA: 1s - loss: 10.5294 - mean\_absolute\_error: 2.46843639/4840 [=====================>........] - ETA: 1s - loss: 10.5219 - mean\_absolute\_error: 2.46753699/4840 [=====================>........] - ETA: 0s - loss: 10.5242 - mean\_absolute\_error: 2.46803757/4840 [======================>.......] - ETA: 0s - loss: 10.5194 - mean\_absolute\_error: 2.46733817/4840 [======================>.......] - ETA: 0s - loss: 10.5112 - mean\_absolute\_error: 2.46583877/4840 [=======================>......] - ETA: 0s - loss: 10.5059 - mean\_absolute\_error: 2.46543936/4840 [=======================>......] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46553996/4840 [=======================>......] - ETA: 0s - loss: 10.5111 - mean\_absolute\_error: 2.46634054/4840 [========================>.....] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46584113/4840 [========================>.....] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46504171/4840 [========================>.....] - ETA: 0s - loss: 10.4958 - mean\_absolute\_error: 2.46424228/4840 [=========================>....] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46374286/4840 [=========================>....] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46414344/4840 [=========================>....] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46424404/4840 [==========================>...] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46414463/4840 [==========================>...] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46314523/4840 [===========================>..] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46344581/4840 [===========================>..] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46384637/4840 [===========================>..] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46344694/4840 [============================>.] - ETA: 0s - loss: 10.4997 - mean\_absolute\_error: 2.46264752/4840 [============================>.] - ETA: 0s - loss: 10.5046 - mean\_absolute\_error: 2.46294811/4840 [============================>.] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46334840/4840 [==============================] - 4s 903us/step - loss: 10.5041 - mean\_absolute\_error: 2.4629 - val\_loss: 11.4839 - val\_mean\_absolute\_error: 2.5801  
Epoch 46/100  
 1/4840 [..............................] - ETA: 9s - loss: 14.8940 - mean\_absolute\_error: 2.9105 60/4840 [..............................] - ETA: 4s - loss: 10.1357 - mean\_absolute\_error: 2.4199 120/4840 [..............................] - ETA: 3s - loss: 10.2228 - mean\_absolute\_error: 2.4388 180/4840 [>.............................] - ETA: 3s - loss: 10.2957 - mean\_absolute\_error: 2.4470 239/4840 [>.............................] - ETA: 3s - loss: 10.2395 - mean\_absolute\_error: 2.4410 299/4840 [>.............................] - ETA: 3s - loss: 10.2455 - mean\_absolute\_error: 2.4408 358/4840 [=>............................] - ETA: 3s - loss: 10.2729 - mean\_absolute\_error: 2.4415 416/4840 [=>............................] - ETA: 3s - loss: 10.3163 - mean\_absolute\_error: 2.4447 475/4840 [=>............................] - ETA: 3s - loss: 10.2421 - mean\_absolute\_error: 2.4371 534/4840 [==>...........................] - ETA: 3s - loss: 10.2570 - mean\_absolute\_error: 2.4352 593/4840 [==>...........................] - ETA: 3s - loss: 10.2786 - mean\_absolute\_error: 2.4390 652/4840 [===>..........................] - ETA: 3s - loss: 10.2908 - mean\_absolute\_error: 2.4395 709/4840 [===>..........................] - ETA: 3s - loss: 10.2350 - mean\_absolute\_error: 2.4326 767/4840 [===>..........................] - ETA: 3s - loss: 10.2752 - mean\_absolute\_error: 2.4375 826/4840 [====>.........................] - ETA: 3s - loss: 10.2713 - mean\_absolute\_error: 2.4379 886/4840 [====>.........................] - ETA: 3s - loss: 10.2657 - mean\_absolute\_error: 2.4354 946/4840 [====>.........................] - ETA: 3s - loss: 10.2751 - mean\_absolute\_error: 2.43661006/4840 [=====>........................] - ETA: 3s - loss: 10.2764 - mean\_absolute\_error: 2.43851066/4840 [=====>........................] - ETA: 3s - loss: 10.3117 - mean\_absolute\_error: 2.44081125/4840 [=====>........................] - ETA: 3s - loss: 10.3171 - mean\_absolute\_error: 2.44101185/4840 [======>.......................] - ETA: 3s - loss: 10.3204 - mean\_absolute\_error: 2.44071244/4840 [======>.......................] - ETA: 3s - loss: 10.3412 - mean\_absolute\_error: 2.44131303/4840 [=======>......................] - ETA: 3s - loss: 10.3728 - mean\_absolute\_error: 2.44531363/4840 [=======>......................] - ETA: 2s - loss: 10.3792 - mean\_absolute\_error: 2.44641422/4840 [=======>......................] - ETA: 2s - loss: 10.3954 - mean\_absolute\_error: 2.44871482/4840 [========>.....................] - ETA: 2s - loss: 10.3969 - mean\_absolute\_error: 2.44811539/4840 [========>.....................] - ETA: 2s - loss: 10.4059 - mean\_absolute\_error: 2.44961598/4840 [========>.....................] - ETA: 2s - loss: 10.4003 - mean\_absolute\_error: 2.44851657/4840 [=========>....................] - ETA: 2s - loss: 10.4038 - mean\_absolute\_error: 2.44991717/4840 [=========>....................] - ETA: 2s - loss: 10.4066 - mean\_absolute\_error: 2.44991777/4840 [==========>...................] - ETA: 2s - loss: 10.4227 - mean\_absolute\_error: 2.45091836/4840 [==========>...................] - ETA: 2s - loss: 10.4419 - mean\_absolute\_error: 2.45291892/4840 [==========>...................] - ETA: 2s - loss: 10.4412 - mean\_absolute\_error: 2.45261949/4840 [===========>..................] - ETA: 2s - loss: 10.4418 - mean\_absolute\_error: 2.45232009/4840 [===========>..................] - ETA: 2s - loss: 10.4338 - mean\_absolute\_error: 2.45122066/4840 [===========>..................] - ETA: 2s - loss: 10.4131 - mean\_absolute\_error: 2.44832125/4840 [============>.................] - ETA: 2s - loss: 10.4140 - mean\_absolute\_error: 2.44832184/4840 [============>.................] - ETA: 2s - loss: 10.4464 - mean\_absolute\_error: 2.45232244/4840 [============>.................] - ETA: 2s - loss: 10.4621 - mean\_absolute\_error: 2.45422304/4840 [=============>................] - ETA: 2s - loss: 10.4637 - mean\_absolute\_error: 2.45382364/4840 [=============>................] - ETA: 2s - loss: 10.4732 - mean\_absolute\_error: 2.45552423/4840 [==============>...............] - ETA: 2s - loss: 10.4577 - mean\_absolute\_error: 2.45382482/4840 [==============>...............] - ETA: 2s - loss: 10.4672 - mean\_absolute\_error: 2.45502539/4840 [==============>...............] - ETA: 1s - loss: 10.4683 - mean\_absolute\_error: 2.45532598/4840 [===============>..............] - ETA: 1s - loss: 10.4788 - mean\_absolute\_error: 2.45752657/4840 [===============>..............] - ETA: 1s - loss: 10.4763 - mean\_absolute\_error: 2.45752715/4840 [===============>..............] - ETA: 1s - loss: 10.4841 - mean\_absolute\_error: 2.45872773/4840 [================>.............] - ETA: 1s - loss: 10.4793 - mean\_absolute\_error: 2.45802833/4840 [================>.............] - ETA: 1s - loss: 10.4688 - mean\_absolute\_error: 2.45732892/4840 [================>.............] - ETA: 1s - loss: 10.4730 - mean\_absolute\_error: 2.45782951/4840 [=================>............] - ETA: 1s - loss: 10.4639 - mean\_absolute\_error: 2.45723011/4840 [=================>............] - ETA: 1s - loss: 10.4738 - mean\_absolute\_error: 2.45823066/4840 [==================>...........] - ETA: 1s - loss: 10.4925 - mean\_absolute\_error: 2.46043123/4840 [==================>...........] - ETA: 1s - loss: 10.5002 - mean\_absolute\_error: 2.46133181/4840 [==================>...........] - ETA: 1s - loss: 10.5011 - mean\_absolute\_error: 2.46103240/4840 [===================>..........] - ETA: 1s - loss: 10.5003 - mean\_absolute\_error: 2.46123299/4840 [===================>..........] - ETA: 1s - loss: 10.4974 - mean\_absolute\_error: 2.46133358/4840 [===================>..........] - ETA: 1s - loss: 10.4989 - mean\_absolute\_error: 2.46163418/4840 [====================>.........] - ETA: 1s - loss: 10.5063 - mean\_absolute\_error: 2.46283477/4840 [====================>.........] - ETA: 1s - loss: 10.5030 - mean\_absolute\_error: 2.46223537/4840 [====================>.........] - ETA: 1s - loss: 10.5006 - mean\_absolute\_error: 2.46183595/4840 [=====================>........] - ETA: 1s - loss: 10.4946 - mean\_absolute\_error: 2.46103653/4840 [=====================>........] - ETA: 1s - loss: 10.4933 - mean\_absolute\_error: 2.46073712/4840 [======================>.......] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46073772/4840 [======================>.......] - ETA: 0s - loss: 10.4892 - mean\_absolute\_error: 2.46023830/4840 [======================>.......] - ETA: 0s - loss: 10.5010 - mean\_absolute\_error: 2.46203888/4840 [=======================>......] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.46193944/4840 [=======================>......] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46144001/4840 [=======================>......] - ETA: 0s - loss: 10.4855 - mean\_absolute\_error: 2.46034060/4840 [========================>.....] - ETA: 0s - loss: 10.4872 - mean\_absolute\_error: 2.46074119/4840 [========================>.....] - ETA: 0s - loss: 10.4850 - mean\_absolute\_error: 2.45994178/4840 [========================>.....] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.46074234/4840 [=========================>....] - ETA: 0s - loss: 10.4987 - mean\_absolute\_error: 2.46184291/4840 [=========================>....] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46224349/4840 [=========================>....] - ETA: 0s - loss: 10.5011 - mean\_absolute\_error: 2.46254408/4840 [==========================>...] - ETA: 0s - loss: 10.5082 - mean\_absolute\_error: 2.46344467/4840 [==========================>...] - ETA: 0s - loss: 10.5128 - mean\_absolute\_error: 2.46384526/4840 [===========================>..] - ETA: 0s - loss: 10.5128 - mean\_absolute\_error: 2.46364585/4840 [===========================>..] - ETA: 0s - loss: 10.5110 - mean\_absolute\_error: 2.46324645/4840 [===========================>..] - ETA: 0s - loss: 10.5157 - mean\_absolute\_error: 2.46374704/4840 [============================>.] - ETA: 0s - loss: 10.5072 - mean\_absolute\_error: 2.46254763/4840 [============================>.] - ETA: 0s - loss: 10.5072 - mean\_absolute\_error: 2.46244822/4840 [============================>.] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46214840/4840 [==============================] - 4s 899us/step - loss: 10.5040 - mean\_absolute\_error: 2.4620 - val\_loss: 11.4817 - val\_mean\_absolute\_error: 2.5801  
Epoch 47/100  
 1/4840 [..............................] - ETA: 4s - loss: 11.9980 - mean\_absolute\_error: 2.8046 60/4840 [..............................] - ETA: 4s - loss: 10.3304 - mean\_absolute\_error: 2.4518 118/4840 [..............................] - ETA: 4s - loss: 10.2841 - mean\_absolute\_error: 2.4357 178/4840 [>.............................] - ETA: 3s - loss: 10.3568 - mean\_absolute\_error: 2.4382 238/4840 [>.............................] - ETA: 3s - loss: 10.4041 - mean\_absolute\_error: 2.4466 294/4840 [>.............................] - ETA: 3s - loss: 10.4648 - mean\_absolute\_error: 2.4493 352/4840 [=>............................] - ETA: 3s - loss: 10.4115 - mean\_absolute\_error: 2.4418 410/4840 [=>............................] - ETA: 3s - loss: 10.4867 - mean\_absolute\_error: 2.4526 469/4840 [=>............................] - ETA: 3s - loss: 10.4830 - mean\_absolute\_error: 2.4500 528/4840 [==>...........................] - ETA: 3s - loss: 10.4944 - mean\_absolute\_error: 2.4549 587/4840 [==>...........................] - ETA: 3s - loss: 10.4762 - mean\_absolute\_error: 2.4562 646/4840 [===>..........................] - ETA: 3s - loss: 10.4731 - mean\_absolute\_error: 2.4562 706/4840 [===>..........................] - ETA: 3s - loss: 10.4617 - mean\_absolute\_error: 2.4552 764/4840 [===>..........................] - ETA: 3s - loss: 10.4352 - mean\_absolute\_error: 2.4528 823/4840 [====>.........................] - ETA: 3s - loss: 10.4824 - mean\_absolute\_error: 2.4585 881/4840 [====>.........................] - ETA: 3s - loss: 10.4785 - mean\_absolute\_error: 2.4589 941/4840 [====>.........................] - ETA: 3s - loss: 10.4655 - mean\_absolute\_error: 2.45821001/4840 [=====>........................] - ETA: 3s - loss: 10.4520 - mean\_absolute\_error: 2.45641060/4840 [=====>........................] - ETA: 3s - loss: 10.4709 - mean\_absolute\_error: 2.46021119/4840 [=====>........................] - ETA: 3s - loss: 10.4869 - mean\_absolute\_error: 2.46251177/4840 [======>.......................] - ETA: 3s - loss: 10.4602 - mean\_absolute\_error: 2.46001237/4840 [======>.......................] - ETA: 3s - loss: 10.4866 - mean\_absolute\_error: 2.46231297/4840 [=======>......................] - ETA: 3s - loss: 10.4717 - mean\_absolute\_error: 2.46121357/4840 [=======>......................] - ETA: 2s - loss: 10.4629 - mean\_absolute\_error: 2.45931417/4840 [=======>......................] - ETA: 2s - loss: 10.4617 - mean\_absolute\_error: 2.45881475/4840 [========>.....................] - ETA: 2s - loss: 10.4497 - mean\_absolute\_error: 2.45671534/4840 [========>.....................] - ETA: 2s - loss: 10.4560 - mean\_absolute\_error: 2.45821592/4840 [========>.....................] - ETA: 2s - loss: 10.4647 - mean\_absolute\_error: 2.45981650/4840 [=========>....................] - ETA: 2s - loss: 10.4850 - mean\_absolute\_error: 2.46301710/4840 [=========>....................] - ETA: 2s - loss: 10.4832 - mean\_absolute\_error: 2.46251769/4840 [=========>....................] - ETA: 2s - loss: 10.4941 - mean\_absolute\_error: 2.46581827/4840 [==========>...................] - ETA: 2s - loss: 10.4931 - mean\_absolute\_error: 2.46581880/4840 [==========>...................] - ETA: 2s - loss: 10.4939 - mean\_absolute\_error: 2.46581931/4840 [==========>...................] - ETA: 2s - loss: 10.4813 - mean\_absolute\_error: 2.46371982/4840 [===========>..................] - ETA: 2s - loss: 10.4834 - mean\_absolute\_error: 2.46432033/4840 [===========>..................] - ETA: 2s - loss: 10.4831 - mean\_absolute\_error: 2.46402084/4840 [===========>..................] - ETA: 2s - loss: 10.4635 - mean\_absolute\_error: 2.46212140/4840 [============>.................] - ETA: 2s - loss: 10.4419 - mean\_absolute\_error: 2.45892196/4840 [============>.................] - ETA: 2s - loss: 10.4512 - mean\_absolute\_error: 2.46002252/4840 [============>.................] - ETA: 2s - loss: 10.4560 - mean\_absolute\_error: 2.46022308/4840 [=============>................] - ETA: 2s - loss: 10.4567 - mean\_absolute\_error: 2.45992366/4840 [=============>................] - ETA: 2s - loss: 10.4592 - mean\_absolute\_error: 2.46002424/4840 [==============>...............] - ETA: 2s - loss: 10.4605 - mean\_absolute\_error: 2.45932482/4840 [==============>...............] - ETA: 2s - loss: 10.4719 - mean\_absolute\_error: 2.46062541/4840 [==============>...............] - ETA: 2s - loss: 10.4754 - mean\_absolute\_error: 2.46112597/4840 [===============>..............] - ETA: 1s - loss: 10.4705 - mean\_absolute\_error: 2.46022654/4840 [===============>..............] - ETA: 1s - loss: 10.4735 - mean\_absolute\_error: 2.46022712/4840 [===============>..............] - ETA: 1s - loss: 10.4825 - mean\_absolute\_error: 2.46192771/4840 [================>.............] - ETA: 1s - loss: 10.4784 - mean\_absolute\_error: 2.46162831/4840 [================>.............] - ETA: 1s - loss: 10.4749 - mean\_absolute\_error: 2.46142890/4840 [================>.............] - ETA: 1s - loss: 10.4827 - mean\_absolute\_error: 2.46242949/4840 [=================>............] - ETA: 1s - loss: 10.4966 - mean\_absolute\_error: 2.46383009/4840 [=================>............] - ETA: 1s - loss: 10.4901 - mean\_absolute\_error: 2.46273068/4840 [==================>...........] - ETA: 1s - loss: 10.4895 - mean\_absolute\_error: 2.46263128/4840 [==================>...........] - ETA: 1s - loss: 10.4952 - mean\_absolute\_error: 2.46333187/4840 [==================>...........] - ETA: 1s - loss: 10.4835 - mean\_absolute\_error: 2.46203241/4840 [===================>..........] - ETA: 1s - loss: 10.4786 - mean\_absolute\_error: 2.46083299/4840 [===================>..........] - ETA: 1s - loss: 10.4638 - mean\_absolute\_error: 2.45893357/4840 [===================>..........] - ETA: 1s - loss: 10.4715 - mean\_absolute\_error: 2.46003416/4840 [====================>.........] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.46153474/4840 [====================>.........] - ETA: 1s - loss: 10.4825 - mean\_absolute\_error: 2.46213534/4840 [====================>.........] - ETA: 1s - loss: 10.4826 - mean\_absolute\_error: 2.46193593/4840 [=====================>........] - ETA: 1s - loss: 10.4820 - mean\_absolute\_error: 2.46163651/4840 [=====================>........] - ETA: 1s - loss: 10.4882 - mean\_absolute\_error: 2.46223706/4840 [=====================>........] - ETA: 0s - loss: 10.4857 - mean\_absolute\_error: 2.46183756/4840 [======================>.......] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46253809/4840 [======================>.......] - ETA: 0s - loss: 10.4861 - mean\_absolute\_error: 2.46153865/4840 [======================>.......] - ETA: 0s - loss: 10.4826 - mean\_absolute\_error: 2.46063921/4840 [=======================>......] - ETA: 0s - loss: 10.4829 - mean\_absolute\_error: 2.46053979/4840 [=======================>......] - ETA: 0s - loss: 10.4756 - mean\_absolute\_error: 2.45924036/4840 [========================>.....] - ETA: 0s - loss: 10.4830 - mean\_absolute\_error: 2.45974094/4840 [========================>.....] - ETA: 0s - loss: 10.4782 - mean\_absolute\_error: 2.45914153/4840 [========================>.....] - ETA: 0s - loss: 10.4833 - mean\_absolute\_error: 2.46004212/4840 [=========================>....] - ETA: 0s - loss: 10.4827 - mean\_absolute\_error: 2.46014272/4840 [=========================>....] - ETA: 0s - loss: 10.4846 - mean\_absolute\_error: 2.46024330/4840 [=========================>....] - ETA: 0s - loss: 10.4849 - mean\_absolute\_error: 2.46064389/4840 [==========================>...] - ETA: 0s - loss: 10.4865 - mean\_absolute\_error: 2.46064449/4840 [==========================>...] - ETA: 0s - loss: 10.4876 - mean\_absolute\_error: 2.46054507/4840 [==========================>...] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.45994565/4840 [===========================>..] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.46044623/4840 [===========================>..] - ETA: 0s - loss: 10.4971 - mean\_absolute\_error: 2.46144681/4840 [============================>.] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46124741/4840 [============================>.] - ETA: 0s - loss: 10.4966 - mean\_absolute\_error: 2.46114800/4840 [============================>.] - ETA: 0s - loss: 10.5024 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 914us/step - loss: 10.5038 - mean\_absolute\_error: 2.4616 - val\_loss: 11.4830 - val\_mean\_absolute\_error: 2.5804  
Epoch 48/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.8455 - mean\_absolute\_error: 2.4119 60/4840 [..............................] - ETA: 4s - loss: 10.3054 - mean\_absolute\_error: 2.4378 119/4840 [..............................] - ETA: 4s - loss: 10.2681 - mean\_absolute\_error: 2.4372 177/4840 [>.............................] - ETA: 4s - loss: 10.2342 - mean\_absolute\_error: 2.4293 236/4840 [>.............................] - ETA: 3s - loss: 10.1881 - mean\_absolute\_error: 2.4210 296/4840 [>.............................] - ETA: 3s - loss: 10.3215 - mean\_absolute\_error: 2.4433 354/4840 [=>............................] - ETA: 3s - loss: 10.3153 - mean\_absolute\_error: 2.4455 413/4840 [=>............................] - ETA: 3s - loss: 10.4244 - mean\_absolute\_error: 2.4582 472/4840 [=>............................] - ETA: 3s - loss: 10.3989 - mean\_absolute\_error: 2.4543 531/4840 [==>...........................] - ETA: 3s - loss: 10.4020 - mean\_absolute\_error: 2.4545 590/4840 [==>...........................] - ETA: 3s - loss: 10.3801 - mean\_absolute\_error: 2.4523 649/4840 [===>..........................] - ETA: 3s - loss: 10.3941 - mean\_absolute\_error: 2.4535 709/4840 [===>..........................] - ETA: 3s - loss: 10.3787 - mean\_absolute\_error: 2.4498 766/4840 [===>..........................] - ETA: 3s - loss: 10.4095 - mean\_absolute\_error: 2.4540 825/4840 [====>.........................] - ETA: 3s - loss: 10.4175 - mean\_absolute\_error: 2.4546 883/4840 [====>.........................] - ETA: 3s - loss: 10.4037 - mean\_absolute\_error: 2.4528 941/4840 [====>.........................] - ETA: 3s - loss: 10.3949 - mean\_absolute\_error: 2.4516 998/4840 [=====>........................] - ETA: 3s - loss: 10.4167 - mean\_absolute\_error: 2.45371056/4840 [=====>........................] - ETA: 3s - loss: 10.4258 - mean\_absolute\_error: 2.45551115/4840 [=====>........................] - ETA: 3s - loss: 10.4474 - mean\_absolute\_error: 2.45761174/4840 [======>.......................] - ETA: 3s - loss: 10.4355 - mean\_absolute\_error: 2.45661233/4840 [======>.......................] - ETA: 3s - loss: 10.4080 - mean\_absolute\_error: 2.45251292/4840 [=======>......................] - ETA: 3s - loss: 10.4248 - mean\_absolute\_error: 2.45511350/4840 [=======>......................] - ETA: 2s - loss: 10.4010 - mean\_absolute\_error: 2.45121409/4840 [=======>......................] - ETA: 2s - loss: 10.4249 - mean\_absolute\_error: 2.45421465/4840 [========>.....................] - ETA: 2s - loss: 10.4241 - mean\_absolute\_error: 2.45381524/4840 [========>.....................] - ETA: 2s - loss: 10.4352 - mean\_absolute\_error: 2.45471581/4840 [========>.....................] - ETA: 2s - loss: 10.4232 - mean\_absolute\_error: 2.45381639/4840 [=========>....................] - ETA: 2s - loss: 10.3973 - mean\_absolute\_error: 2.45041697/4840 [=========>....................] - ETA: 2s - loss: 10.3905 - mean\_absolute\_error: 2.44951757/4840 [=========>....................] - ETA: 2s - loss: 10.4046 - mean\_absolute\_error: 2.45161813/4840 [==========>...................] - ETA: 2s - loss: 10.3841 - mean\_absolute\_error: 2.44901872/4840 [==========>...................] - ETA: 2s - loss: 10.4141 - mean\_absolute\_error: 2.45311931/4840 [==========>...................] - ETA: 2s - loss: 10.4145 - mean\_absolute\_error: 2.45281990/4840 [===========>..................] - ETA: 2s - loss: 10.4341 - mean\_absolute\_error: 2.45542050/4840 [===========>..................] - ETA: 2s - loss: 10.4447 - mean\_absolute\_error: 2.45602109/4840 [============>.................] - ETA: 2s - loss: 10.4510 - mean\_absolute\_error: 2.45662166/4840 [============>.................] - ETA: 2s - loss: 10.4449 - mean\_absolute\_error: 2.45582225/4840 [============>.................] - ETA: 2s - loss: 10.4389 - mean\_absolute\_error: 2.45502283/4840 [=============>................] - ETA: 2s - loss: 10.4290 - mean\_absolute\_error: 2.45382342/4840 [=============>................] - ETA: 2s - loss: 10.4289 - mean\_absolute\_error: 2.45362403/4840 [=============>................] - ETA: 2s - loss: 10.4557 - mean\_absolute\_error: 2.45672463/4840 [==============>...............] - ETA: 2s - loss: 10.4542 - mean\_absolute\_error: 2.45622524/4840 [==============>...............] - ETA: 1s - loss: 10.4524 - mean\_absolute\_error: 2.45612581/4840 [==============>...............] - ETA: 1s - loss: 10.4811 - mean\_absolute\_error: 2.46022641/4840 [===============>..............] - ETA: 1s - loss: 10.4830 - mean\_absolute\_error: 2.46002701/4840 [===============>..............] - ETA: 1s - loss: 10.4811 - mean\_absolute\_error: 2.46002761/4840 [================>.............] - ETA: 1s - loss: 10.4848 - mean\_absolute\_error: 2.46002821/4840 [================>.............] - ETA: 1s - loss: 10.4764 - mean\_absolute\_error: 2.45852878/4840 [================>.............] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45912936/4840 [=================>............] - ETA: 1s - loss: 10.4800 - mean\_absolute\_error: 2.45892995/4840 [=================>............] - ETA: 1s - loss: 10.4612 - mean\_absolute\_error: 2.45663055/4840 [=================>............] - ETA: 1s - loss: 10.4619 - mean\_absolute\_error: 2.45653114/4840 [==================>...........] - ETA: 1s - loss: 10.4575 - mean\_absolute\_error: 2.45513171/4840 [==================>...........] - ETA: 1s - loss: 10.4600 - mean\_absolute\_error: 2.45503229/4840 [===================>..........] - ETA: 1s - loss: 10.4619 - mean\_absolute\_error: 2.45603287/4840 [===================>..........] - ETA: 1s - loss: 10.4544 - mean\_absolute\_error: 2.45483346/4840 [===================>..........] - ETA: 1s - loss: 10.4644 - mean\_absolute\_error: 2.45623404/4840 [====================>.........] - ETA: 1s - loss: 10.4713 - mean\_absolute\_error: 2.45713465/4840 [====================>.........] - ETA: 1s - loss: 10.4847 - mean\_absolute\_error: 2.45903524/4840 [====================>.........] - ETA: 1s - loss: 10.4870 - mean\_absolute\_error: 2.45973582/4840 [=====================>........] - ETA: 1s - loss: 10.4848 - mean\_absolute\_error: 2.45923641/4840 [=====================>........] - ETA: 1s - loss: 10.4876 - mean\_absolute\_error: 2.45973701/4840 [=====================>........] - ETA: 0s - loss: 10.4871 - mean\_absolute\_error: 2.45983759/4840 [======================>.......] - ETA: 0s - loss: 10.4904 - mean\_absolute\_error: 2.46043815/4840 [======================>.......] - ETA: 0s - loss: 10.4872 - mean\_absolute\_error: 2.46013874/4840 [=======================>......] - ETA: 0s - loss: 10.4879 - mean\_absolute\_error: 2.46033933/4840 [=======================>......] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46183992/4840 [=======================>......] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46264052/4840 [========================>.....] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46164110/4840 [========================>.....] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46274169/4840 [========================>.....] - ETA: 0s - loss: 10.5062 - mean\_absolute\_error: 2.46214228/4840 [=========================>....] - ETA: 0s - loss: 10.5042 - mean\_absolute\_error: 2.46194287/4840 [=========================>....] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46214346/4840 [=========================>....] - ETA: 0s - loss: 10.5047 - mean\_absolute\_error: 2.46184405/4840 [==========================>...] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46134460/4840 [==========================>...] - ETA: 0s - loss: 10.5048 - mean\_absolute\_error: 2.46154518/4840 [===========================>..] - ETA: 0s - loss: 10.5011 - mean\_absolute\_error: 2.46124576/4840 [===========================>..] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46084635/4840 [===========================>..] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46114694/4840 [============================>.] - ETA: 0s - loss: 10.5023 - mean\_absolute\_error: 2.46134755/4840 [============================>.] - ETA: 0s - loss: 10.5056 - mean\_absolute\_error: 2.46194815/4840 [============================>.] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 903us/step - loss: 10.5039 - mean\_absolute\_error: 2.4616 - val\_loss: 11.4823 - val\_mean\_absolute\_error: 2.5803  
Epoch 49/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.8332 - mean\_absolute\_error: 2.4751 61/4840 [..............................] - ETA: 4s - loss: 10.7396 - mean\_absolute\_error: 2.4972 120/4840 [..............................] - ETA: 3s - loss: 10.8224 - mean\_absolute\_error: 2.5043 179/4840 [>.............................] - ETA: 3s - loss: 10.5639 - mean\_absolute\_error: 2.4695 237/4840 [>.............................] - ETA: 3s - loss: 10.5661 - mean\_absolute\_error: 2.4785 296/4840 [>.............................] - ETA: 3s - loss: 10.5153 - mean\_absolute\_error: 2.4714 356/4840 [=>............................] - ETA: 3s - loss: 10.6245 - mean\_absolute\_error: 2.4829 416/4840 [=>............................] - ETA: 3s - loss: 10.5997 - mean\_absolute\_error: 2.4789 476/4840 [=>............................] - ETA: 3s - loss: 10.5954 - mean\_absolute\_error: 2.4758 534/4840 [==>...........................] - ETA: 3s - loss: 10.6126 - mean\_absolute\_error: 2.4775 593/4840 [==>...........................] - ETA: 3s - loss: 10.5827 - mean\_absolute\_error: 2.4736 652/4840 [===>..........................] - ETA: 3s - loss: 10.5789 - mean\_absolute\_error: 2.4755 712/4840 [===>..........................] - ETA: 3s - loss: 10.5533 - mean\_absolute\_error: 2.4728 772/4840 [===>..........................] - ETA: 3s - loss: 10.5028 - mean\_absolute\_error: 2.4671 833/4840 [====>.........................] - ETA: 3s - loss: 10.4687 - mean\_absolute\_error: 2.4610 893/4840 [====>.........................] - ETA: 3s - loss: 10.4632 - mean\_absolute\_error: 2.4606 954/4840 [====>.........................] - ETA: 3s - loss: 10.4967 - mean\_absolute\_error: 2.46481014/4840 [=====>........................] - ETA: 3s - loss: 10.5116 - mean\_absolute\_error: 2.46811073/4840 [=====>........................] - ETA: 3s - loss: 10.4989 - mean\_absolute\_error: 2.46621132/4840 [======>.......................] - ETA: 3s - loss: 10.4705 - mean\_absolute\_error: 2.46251193/4840 [======>.......................] - ETA: 3s - loss: 10.4238 - mean\_absolute\_error: 2.45451254/4840 [======>.......................] - ETA: 3s - loss: 10.4229 - mean\_absolute\_error: 2.45431313/4840 [=======>......................] - ETA: 2s - loss: 10.4395 - mean\_absolute\_error: 2.45571368/4840 [=======>......................] - ETA: 2s - loss: 10.4378 - mean\_absolute\_error: 2.45581428/4840 [=======>......................] - ETA: 2s - loss: 10.4378 - mean\_absolute\_error: 2.45531487/4840 [========>.....................] - ETA: 2s - loss: 10.4399 - mean\_absolute\_error: 2.45441547/4840 [========>.....................] - ETA: 2s - loss: 10.4468 - mean\_absolute\_error: 2.45671607/4840 [========>.....................] - ETA: 2s - loss: 10.4533 - mean\_absolute\_error: 2.45771667/4840 [=========>....................] - ETA: 2s - loss: 10.4486 - mean\_absolute\_error: 2.45591726/4840 [=========>....................] - ETA: 2s - loss: 10.4655 - mean\_absolute\_error: 2.45881785/4840 [==========>...................] - ETA: 2s - loss: 10.4512 - mean\_absolute\_error: 2.45801845/4840 [==========>...................] - ETA: 2s - loss: 10.4452 - mean\_absolute\_error: 2.45721904/4840 [==========>...................] - ETA: 2s - loss: 10.4721 - mean\_absolute\_error: 2.46031965/4840 [===========>..................] - ETA: 2s - loss: 10.4595 - mean\_absolute\_error: 2.45942025/4840 [===========>..................] - ETA: 2s - loss: 10.4631 - mean\_absolute\_error: 2.45882086/4840 [===========>..................] - ETA: 2s - loss: 10.4610 - mean\_absolute\_error: 2.45902146/4840 [============>.................] - ETA: 2s - loss: 10.4632 - mean\_absolute\_error: 2.45962205/4840 [============>.................] - ETA: 2s - loss: 10.4624 - mean\_absolute\_error: 2.45902264/4840 [=============>................] - ETA: 2s - loss: 10.4465 - mean\_absolute\_error: 2.45752324/4840 [=============>................] - ETA: 2s - loss: 10.4496 - mean\_absolute\_error: 2.45782384/4840 [=============>................] - ETA: 2s - loss: 10.4433 - mean\_absolute\_error: 2.45632445/4840 [==============>...............] - ETA: 2s - loss: 10.4619 - mean\_absolute\_error: 2.45862505/4840 [==============>...............] - ETA: 1s - loss: 10.4648 - mean\_absolute\_error: 2.45872565/4840 [==============>...............] - ETA: 1s - loss: 10.4591 - mean\_absolute\_error: 2.45782625/4840 [===============>..............] - ETA: 1s - loss: 10.4551 - mean\_absolute\_error: 2.45712685/4840 [===============>..............] - ETA: 1s - loss: 10.4420 - mean\_absolute\_error: 2.45542745/4840 [================>.............] - ETA: 1s - loss: 10.4456 - mean\_absolute\_error: 2.45582804/4840 [================>.............] - ETA: 1s - loss: 10.4470 - mean\_absolute\_error: 2.45562863/4840 [================>.............] - ETA: 1s - loss: 10.4431 - mean\_absolute\_error: 2.45492921/4840 [=================>............] - ETA: 1s - loss: 10.4354 - mean\_absolute\_error: 2.45382979/4840 [=================>............] - ETA: 1s - loss: 10.4422 - mean\_absolute\_error: 2.45473038/4840 [=================>............] - ETA: 1s - loss: 10.4335 - mean\_absolute\_error: 2.45353097/4840 [==================>...........] - ETA: 1s - loss: 10.4362 - mean\_absolute\_error: 2.45393157/4840 [==================>...........] - ETA: 1s - loss: 10.4272 - mean\_absolute\_error: 2.45263216/4840 [==================>...........] - ETA: 1s - loss: 10.4188 - mean\_absolute\_error: 2.45153276/4840 [===================>..........] - ETA: 1s - loss: 10.4209 - mean\_absolute\_error: 2.45203334/4840 [===================>..........] - ETA: 1s - loss: 10.4329 - mean\_absolute\_error: 2.45363394/4840 [====================>.........] - ETA: 1s - loss: 10.4315 - mean\_absolute\_error: 2.45383453/4840 [====================>.........] - ETA: 1s - loss: 10.4330 - mean\_absolute\_error: 2.45393512/4840 [====================>.........] - ETA: 1s - loss: 10.4246 - mean\_absolute\_error: 2.45343572/4840 [=====================>........] - ETA: 1s - loss: 10.4234 - mean\_absolute\_error: 2.45323632/4840 [=====================>........] - ETA: 1s - loss: 10.4398 - mean\_absolute\_error: 2.45543690/4840 [=====================>........] - ETA: 0s - loss: 10.4475 - mean\_absolute\_error: 2.45653748/4840 [======================>.......] - ETA: 0s - loss: 10.4548 - mean\_absolute\_error: 2.45733806/4840 [======================>.......] - ETA: 0s - loss: 10.4534 - mean\_absolute\_error: 2.45703865/4840 [======================>.......] - ETA: 0s - loss: 10.4610 - mean\_absolute\_error: 2.45773925/4840 [=======================>......] - ETA: 0s - loss: 10.4664 - mean\_absolute\_error: 2.45893985/4840 [=======================>......] - ETA: 0s - loss: 10.4663 - mean\_absolute\_error: 2.45904044/4840 [========================>.....] - ETA: 0s - loss: 10.4603 - mean\_absolute\_error: 2.45804100/4840 [========================>.....] - ETA: 0s - loss: 10.4643 - mean\_absolute\_error: 2.45854158/4840 [========================>.....] - ETA: 0s - loss: 10.4652 - mean\_absolute\_error: 2.45824218/4840 [=========================>....] - ETA: 0s - loss: 10.4700 - mean\_absolute\_error: 2.45864278/4840 [=========================>....] - ETA: 0s - loss: 10.4718 - mean\_absolute\_error: 2.45914337/4840 [=========================>....] - ETA: 0s - loss: 10.4764 - mean\_absolute\_error: 2.45944396/4840 [==========================>...] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.46064457/4840 [==========================>...] - ETA: 0s - loss: 10.4860 - mean\_absolute\_error: 2.46074516/4840 [==========================>...] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.46164577/4840 [===========================>..] - ETA: 0s - loss: 10.4952 - mean\_absolute\_error: 2.46184635/4840 [===========================>..] - ETA: 0s - loss: 10.4924 - mean\_absolute\_error: 2.46184694/4840 [============================>.] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46284753/4840 [============================>.] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46344813/4840 [============================>.] - ETA: 0s - loss: 10.5067 - mean\_absolute\_error: 2.46324840/4840 [==============================] - 4s 891us/step - loss: 10.5040 - mean\_absolute\_error: 2.4627 - val\_loss: 11.4846 - val\_mean\_absolute\_error: 2.5798  
Epoch 50/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.8820 - mean\_absolute\_error: 2.3769 62/4840 [..............................] - ETA: 3s - loss: 10.7061 - mean\_absolute\_error: 2.4884 122/4840 [..............................] - ETA: 3s - loss: 10.4332 - mean\_absolute\_error: 2.4683 179/4840 [>.............................] - ETA: 3s - loss: 10.5013 - mean\_absolute\_error: 2.4804 238/4840 [>.............................] - ETA: 3s - loss: 10.6358 - mean\_absolute\_error: 2.4936 298/4840 [>.............................] - ETA: 3s - loss: 10.6697 - mean\_absolute\_error: 2.4949 358/4840 [=>............................] - ETA: 3s - loss: 10.5710 - mean\_absolute\_error: 2.4800 417/4840 [=>............................] - ETA: 3s - loss: 10.5408 - mean\_absolute\_error: 2.4721 476/4840 [=>............................] - ETA: 3s - loss: 10.5005 - mean\_absolute\_error: 2.4711 534/4840 [==>...........................] - ETA: 3s - loss: 10.5120 - mean\_absolute\_error: 2.4727 595/4840 [==>...........................] - ETA: 3s - loss: 10.5886 - mean\_absolute\_error: 2.4823 654/4840 [===>..........................] - ETA: 3s - loss: 10.5703 - mean\_absolute\_error: 2.4786 714/4840 [===>..........................] - ETA: 3s - loss: 10.5659 - mean\_absolute\_error: 2.4764 774/4840 [===>..........................] - ETA: 3s - loss: 10.6093 - mean\_absolute\_error: 2.4826 832/4840 [====>.........................] - ETA: 3s - loss: 10.5785 - mean\_absolute\_error: 2.4775 892/4840 [====>.........................] - ETA: 3s - loss: 10.5404 - mean\_absolute\_error: 2.4720 949/4840 [====>.........................] - ETA: 3s - loss: 10.5371 - mean\_absolute\_error: 2.47081006/4840 [=====>........................] - ETA: 3s - loss: 10.5511 - mean\_absolute\_error: 2.47121066/4840 [=====>........................] - ETA: 3s - loss: 10.5062 - mean\_absolute\_error: 2.46641126/4840 [=====>........................] - ETA: 3s - loss: 10.5116 - mean\_absolute\_error: 2.46721178/4840 [======>.......................] - ETA: 3s - loss: 10.5194 - mean\_absolute\_error: 2.46911236/4840 [======>.......................] - ETA: 3s - loss: 10.4911 - mean\_absolute\_error: 2.46511292/4840 [=======>......................] - ETA: 3s - loss: 10.5193 - mean\_absolute\_error: 2.46721347/4840 [=======>......................] - ETA: 3s - loss: 10.5158 - mean\_absolute\_error: 2.46581405/4840 [=======>......................] - ETA: 2s - loss: 10.5262 - mean\_absolute\_error: 2.46811465/4840 [========>.....................] - ETA: 2s - loss: 10.5003 - mean\_absolute\_error: 2.46471525/4840 [========>.....................] - ETA: 2s - loss: 10.5171 - mean\_absolute\_error: 2.46761584/4840 [========>.....................] - ETA: 2s - loss: 10.5376 - mean\_absolute\_error: 2.46971642/4840 [=========>....................] - ETA: 2s - loss: 10.5359 - mean\_absolute\_error: 2.46931700/4840 [=========>....................] - ETA: 2s - loss: 10.5150 - mean\_absolute\_error: 2.46611758/4840 [=========>....................] - ETA: 2s - loss: 10.5172 - mean\_absolute\_error: 2.46591819/4840 [==========>...................] - ETA: 2s - loss: 10.5234 - mean\_absolute\_error: 2.46661878/4840 [==========>...................] - ETA: 2s - loss: 10.5257 - mean\_absolute\_error: 2.46751938/4840 [===========>..................] - ETA: 2s - loss: 10.5302 - mean\_absolute\_error: 2.46681997/4840 [===========>..................] - ETA: 2s - loss: 10.5123 - mean\_absolute\_error: 2.46442055/4840 [===========>..................] - ETA: 2s - loss: 10.4900 - mean\_absolute\_error: 2.46232115/4840 [============>.................] - ETA: 2s - loss: 10.4907 - mean\_absolute\_error: 2.46282175/4840 [============>.................] - ETA: 2s - loss: 10.4801 - mean\_absolute\_error: 2.46112235/4840 [============>.................] - ETA: 2s - loss: 10.4968 - mean\_absolute\_error: 2.46282292/4840 [=============>................] - ETA: 2s - loss: 10.4700 - mean\_absolute\_error: 2.45902350/4840 [=============>................] - ETA: 2s - loss: 10.4560 - mean\_absolute\_error: 2.45712408/4840 [=============>................] - ETA: 2s - loss: 10.4471 - mean\_absolute\_error: 2.45562466/4840 [==============>...............] - ETA: 2s - loss: 10.4530 - mean\_absolute\_error: 2.45542524/4840 [==============>...............] - ETA: 1s - loss: 10.4499 - mean\_absolute\_error: 2.45452580/4840 [==============>...............] - ETA: 1s - loss: 10.4534 - mean\_absolute\_error: 2.45492640/4840 [===============>..............] - ETA: 1s - loss: 10.4569 - mean\_absolute\_error: 2.45522699/4840 [===============>..............] - ETA: 1s - loss: 10.4561 - mean\_absolute\_error: 2.45492759/4840 [================>.............] - ETA: 1s - loss: 10.4538 - mean\_absolute\_error: 2.45442816/4840 [================>.............] - ETA: 1s - loss: 10.4471 - mean\_absolute\_error: 2.45402876/4840 [================>.............] - ETA: 1s - loss: 10.4513 - mean\_absolute\_error: 2.45482935/4840 [=================>............] - ETA: 1s - loss: 10.4518 - mean\_absolute\_error: 2.45522992/4840 [=================>............] - ETA: 1s - loss: 10.4528 - mean\_absolute\_error: 2.45483049/4840 [=================>............] - ETA: 1s - loss: 10.4580 - mean\_absolute\_error: 2.45573109/4840 [==================>...........] - ETA: 1s - loss: 10.4590 - mean\_absolute\_error: 2.45543167/4840 [==================>...........] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45543226/4840 [==================>...........] - ETA: 1s - loss: 10.4581 - mean\_absolute\_error: 2.45573285/4840 [===================>..........] - ETA: 1s - loss: 10.4556 - mean\_absolute\_error: 2.45563341/4840 [===================>..........] - ETA: 1s - loss: 10.4515 - mean\_absolute\_error: 2.45503399/4840 [====================>.........] - ETA: 1s - loss: 10.4650 - mean\_absolute\_error: 2.45653459/4840 [====================>.........] - ETA: 1s - loss: 10.4685 - mean\_absolute\_error: 2.45683519/4840 [====================>.........] - ETA: 1s - loss: 10.4743 - mean\_absolute\_error: 2.45793577/4840 [=====================>........] - ETA: 1s - loss: 10.4680 - mean\_absolute\_error: 2.45693635/4840 [=====================>........] - ETA: 1s - loss: 10.4573 - mean\_absolute\_error: 2.45543694/4840 [=====================>........] - ETA: 0s - loss: 10.4523 - mean\_absolute\_error: 2.45483753/4840 [======================>.......] - ETA: 0s - loss: 10.4549 - mean\_absolute\_error: 2.45523810/4840 [======================>.......] - ETA: 0s - loss: 10.4648 - mean\_absolute\_error: 2.45633869/4840 [======================>.......] - ETA: 0s - loss: 10.4661 - mean\_absolute\_error: 2.45653929/4840 [=======================>......] - ETA: 0s - loss: 10.4595 - mean\_absolute\_error: 2.45563988/4840 [=======================>......] - ETA: 0s - loss: 10.4561 - mean\_absolute\_error: 2.45484046/4840 [========================>.....] - ETA: 0s - loss: 10.4617 - mean\_absolute\_error: 2.45564104/4840 [========================>.....] - ETA: 0s - loss: 10.4685 - mean\_absolute\_error: 2.45634164/4840 [========================>.....] - ETA: 0s - loss: 10.4765 - mean\_absolute\_error: 2.45694223/4840 [=========================>....] - ETA: 0s - loss: 10.4824 - mean\_absolute\_error: 2.45764282/4840 [=========================>....] - ETA: 0s - loss: 10.4909 - mean\_absolute\_error: 2.45874339/4840 [=========================>....] - ETA: 0s - loss: 10.4928 - mean\_absolute\_error: 2.45854389/4840 [==========================>...] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.45914446/4840 [==========================>...] - ETA: 0s - loss: 10.5014 - mean\_absolute\_error: 2.45934506/4840 [==========================>...] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.45964564/4840 [===========================>..] - ETA: 0s - loss: 10.4988 - mean\_absolute\_error: 2.45944622/4840 [===========================>..] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.45954682/4840 [============================>.] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.45964743/4840 [============================>.] - ETA: 0s - loss: 10.5023 - mean\_absolute\_error: 2.46114801/4840 [============================>.] - ETA: 0s - loss: 10.5062 - mean\_absolute\_error: 2.46204840/4840 [==============================] - 4s 902us/step - loss: 10.5034 - mean\_absolute\_error: 2.4616 - val\_loss: 11.4863 - val\_mean\_absolute\_error: 2.5805  
Epoch 51/100  
 1/4840 [..............................] - ETA: 4s - loss: 5.2029 - mean\_absolute\_error: 1.7448 59/4840 [..............................] - ETA: 4s - loss: 10.2884 - mean\_absolute\_error: 2.4403 119/4840 [..............................] - ETA: 4s - loss: 10.5976 - mean\_absolute\_error: 2.4871 179/4840 [>.............................] - ETA: 3s - loss: 10.3860 - mean\_absolute\_error: 2.4550 237/4840 [>.............................] - ETA: 3s - loss: 10.4487 - mean\_absolute\_error: 2.4644 296/4840 [>.............................] - ETA: 3s - loss: 10.5442 - mean\_absolute\_error: 2.4721 356/4840 [=>............................] - ETA: 3s - loss: 10.6155 - mean\_absolute\_error: 2.4825 416/4840 [=>............................] - ETA: 3s - loss: 10.5521 - mean\_absolute\_error: 2.4725 474/4840 [=>............................] - ETA: 3s - loss: 10.5909 - mean\_absolute\_error: 2.4763 533/4840 [==>...........................] - ETA: 3s - loss: 10.6069 - mean\_absolute\_error: 2.4761 591/4840 [==>...........................] - ETA: 3s - loss: 10.5782 - mean\_absolute\_error: 2.4726 650/4840 [===>..........................] - ETA: 3s - loss: 10.5212 - mean\_absolute\_error: 2.4636 710/4840 [===>..........................] - ETA: 3s - loss: 10.4851 - mean\_absolute\_error: 2.4597 770/4840 [===>..........................] - ETA: 3s - loss: 10.5140 - mean\_absolute\_error: 2.4636 829/4840 [====>.........................] - ETA: 3s - loss: 10.5053 - mean\_absolute\_error: 2.4616 886/4840 [====>.........................] - ETA: 3s - loss: 10.4841 - mean\_absolute\_error: 2.4591 944/4840 [====>.........................] - ETA: 3s - loss: 10.4912 - mean\_absolute\_error: 2.45861001/4840 [=====>........................] - ETA: 3s - loss: 10.5468 - mean\_absolute\_error: 2.46621058/4840 [=====>........................] - ETA: 3s - loss: 10.5180 - mean\_absolute\_error: 2.46311112/4840 [=====>........................] - ETA: 3s - loss: 10.5228 - mean\_absolute\_error: 2.46431170/4840 [======>.......................] - ETA: 3s - loss: 10.5017 - mean\_absolute\_error: 2.46061228/4840 [======>.......................] - ETA: 3s - loss: 10.4876 - mean\_absolute\_error: 2.45801286/4840 [======>.......................] - ETA: 3s - loss: 10.5083 - mean\_absolute\_error: 2.46081347/4840 [=======>......................] - ETA: 2s - loss: 10.5393 - mean\_absolute\_error: 2.46331406/4840 [=======>......................] - ETA: 2s - loss: 10.5437 - mean\_absolute\_error: 2.46381464/4840 [========>.....................] - ETA: 2s - loss: 10.5451 - mean\_absolute\_error: 2.46491522/4840 [========>.....................] - ETA: 2s - loss: 10.5114 - mean\_absolute\_error: 2.46111581/4840 [========>.....................] - ETA: 2s - loss: 10.5058 - mean\_absolute\_error: 2.46161639/4840 [=========>....................] - ETA: 2s - loss: 10.4919 - mean\_absolute\_error: 2.46021698/4840 [=========>....................] - ETA: 2s - loss: 10.4720 - mean\_absolute\_error: 2.45751757/4840 [=========>....................] - ETA: 2s - loss: 10.4897 - mean\_absolute\_error: 2.45911817/4840 [==========>...................] - ETA: 2s - loss: 10.4732 - mean\_absolute\_error: 2.45721877/4840 [==========>...................] - ETA: 2s - loss: 10.4877 - mean\_absolute\_error: 2.45991937/4840 [===========>..................] - ETA: 2s - loss: 10.4779 - mean\_absolute\_error: 2.45901998/4840 [===========>..................] - ETA: 2s - loss: 10.4620 - mean\_absolute\_error: 2.45692056/4840 [===========>..................] - ETA: 2s - loss: 10.4714 - mean\_absolute\_error: 2.45852114/4840 [============>.................] - ETA: 2s - loss: 10.4974 - mean\_absolute\_error: 2.46142173/4840 [============>.................] - ETA: 2s - loss: 10.5041 - mean\_absolute\_error: 2.46232233/4840 [============>.................] - ETA: 2s - loss: 10.4980 - mean\_absolute\_error: 2.46172291/4840 [=============>................] - ETA: 2s - loss: 10.4992 - mean\_absolute\_error: 2.46192352/4840 [=============>................] - ETA: 2s - loss: 10.5019 - mean\_absolute\_error: 2.46212410/4840 [=============>................] - ETA: 2s - loss: 10.4889 - mean\_absolute\_error: 2.46092468/4840 [==============>...............] - ETA: 2s - loss: 10.4786 - mean\_absolute\_error: 2.45952526/4840 [==============>...............] - ETA: 1s - loss: 10.4748 - mean\_absolute\_error: 2.45882586/4840 [===============>..............] - ETA: 1s - loss: 10.4613 - mean\_absolute\_error: 2.45772647/4840 [===============>..............] - ETA: 1s - loss: 10.4495 - mean\_absolute\_error: 2.45552708/4840 [===============>..............] - ETA: 1s - loss: 10.4589 - mean\_absolute\_error: 2.45672768/4840 [================>.............] - ETA: 1s - loss: 10.4465 - mean\_absolute\_error: 2.45542828/4840 [================>.............] - ETA: 1s - loss: 10.4361 - mean\_absolute\_error: 2.45372886/4840 [================>.............] - ETA: 1s - loss: 10.4320 - mean\_absolute\_error: 2.45342944/4840 [=================>............] - ETA: 1s - loss: 10.4371 - mean\_absolute\_error: 2.45403004/4840 [=================>............] - ETA: 1s - loss: 10.4407 - mean\_absolute\_error: 2.45413065/4840 [=================>............] - ETA: 1s - loss: 10.4424 - mean\_absolute\_error: 2.45433119/4840 [==================>...........] - ETA: 1s - loss: 10.4541 - mean\_absolute\_error: 2.45543177/4840 [==================>...........] - ETA: 1s - loss: 10.4539 - mean\_absolute\_error: 2.45543234/4840 [===================>..........] - ETA: 1s - loss: 10.4530 - mean\_absolute\_error: 2.45543292/4840 [===================>..........] - ETA: 1s - loss: 10.4593 - mean\_absolute\_error: 2.45653352/4840 [===================>..........] - ETA: 1s - loss: 10.4620 - mean\_absolute\_error: 2.45713413/4840 [====================>.........] - ETA: 1s - loss: 10.4641 - mean\_absolute\_error: 2.45723473/4840 [====================>.........] - ETA: 1s - loss: 10.4709 - mean\_absolute\_error: 2.45833533/4840 [====================>.........] - ETA: 1s - loss: 10.4769 - mean\_absolute\_error: 2.45943592/4840 [=====================>........] - ETA: 1s - loss: 10.4759 - mean\_absolute\_error: 2.45933652/4840 [=====================>........] - ETA: 1s - loss: 10.4797 - mean\_absolute\_error: 2.45993710/4840 [=====================>........] - ETA: 0s - loss: 10.4831 - mean\_absolute\_error: 2.45973769/4840 [======================>.......] - ETA: 0s - loss: 10.4881 - mean\_absolute\_error: 2.45983830/4840 [======================>.......] - ETA: 0s - loss: 10.4831 - mean\_absolute\_error: 2.45913888/4840 [=======================>......] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.46023948/4840 [=======================>......] - ETA: 0s - loss: 10.4933 - mean\_absolute\_error: 2.46054008/4840 [=======================>......] - ETA: 0s - loss: 10.4961 - mean\_absolute\_error: 2.46094066/4840 [========================>.....] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46194124/4840 [========================>.....] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46144183/4840 [========================>.....] - ETA: 0s - loss: 10.5008 - mean\_absolute\_error: 2.46254243/4840 [=========================>....] - ETA: 0s - loss: 10.4960 - mean\_absolute\_error: 2.46184302/4840 [=========================>....] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46234362/4840 [==========================>...] - ETA: 0s - loss: 10.5016 - mean\_absolute\_error: 2.46274420/4840 [==========================>...] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46284477/4840 [==========================>...] - ETA: 0s - loss: 10.5092 - mean\_absolute\_error: 2.46364536/4840 [===========================>..] - ETA: 0s - loss: 10.5082 - mean\_absolute\_error: 2.46354597/4840 [===========================>..] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46364655/4840 [===========================>..] - ETA: 0s - loss: 10.5105 - mean\_absolute\_error: 2.46354716/4840 [============================>.] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46244776/4840 [============================>.] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46184835/4840 [============================>.] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46204840/4840 [==============================] - 4s 897us/step - loss: 10.5034 - mean\_absolute\_error: 2.4619 - val\_loss: 11.4863 - val\_mean\_absolute\_error: 2.5802  
Epoch 52/100  
 1/4840 [..............................] - ETA: 4s - loss: 11.8984 - mean\_absolute\_error: 2.5406 60/4840 [..............................] - ETA: 4s - loss: 10.6566 - mean\_absolute\_error: 2.4610 119/4840 [..............................] - ETA: 4s - loss: 10.5626 - mean\_absolute\_error: 2.4676 176/4840 [>.............................] - ETA: 4s - loss: 10.5316 - mean\_absolute\_error: 2.4676 235/4840 [>.............................] - ETA: 3s - loss: 10.4942 - mean\_absolute\_error: 2.4613 295/4840 [>.............................] - ETA: 3s - loss: 10.5822 - mean\_absolute\_error: 2.4763 354/4840 [=>............................] - ETA: 3s - loss: 10.5698 - mean\_absolute\_error: 2.4751 414/4840 [=>............................] - ETA: 3s - loss: 10.5502 - mean\_absolute\_error: 2.4733 466/4840 [=>............................] - ETA: 3s - loss: 10.5725 - mean\_absolute\_error: 2.4748 523/4840 [==>...........................] - ETA: 3s - loss: 10.5102 - mean\_absolute\_error: 2.4672 581/4840 [==>...........................] - ETA: 3s - loss: 10.5293 - mean\_absolute\_error: 2.4711 640/4840 [==>...........................] - ETA: 3s - loss: 10.4605 - mean\_absolute\_error: 2.4605 700/4840 [===>..........................] - ETA: 3s - loss: 10.4497 - mean\_absolute\_error: 2.4582 759/4840 [===>..........................] - ETA: 3s - loss: 10.5088 - mean\_absolute\_error: 2.4668 819/4840 [====>.........................] - ETA: 3s - loss: 10.4935 - mean\_absolute\_error: 2.4645 878/4840 [====>.........................] - ETA: 3s - loss: 10.4976 - mean\_absolute\_error: 2.4641 935/4840 [====>.........................] - ETA: 3s - loss: 10.4859 - mean\_absolute\_error: 2.4600 993/4840 [=====>........................] - ETA: 3s - loss: 10.4622 - mean\_absolute\_error: 2.45651051/4840 [=====>........................] - ETA: 3s - loss: 10.4643 - mean\_absolute\_error: 2.45711111/4840 [=====>........................] - ETA: 3s - loss: 10.4867 - mean\_absolute\_error: 2.45951170/4840 [======>.......................] - ETA: 3s - loss: 10.4882 - mean\_absolute\_error: 2.45951229/4840 [======>.......................] - ETA: 3s - loss: 10.5063 - mean\_absolute\_error: 2.46281287/4840 [======>.......................] - ETA: 3s - loss: 10.5208 - mean\_absolute\_error: 2.46511347/4840 [=======>......................] - ETA: 2s - loss: 10.5139 - mean\_absolute\_error: 2.46531406/4840 [=======>......................] - ETA: 2s - loss: 10.5223 - mean\_absolute\_error: 2.46541466/4840 [========>.....................] - ETA: 2s - loss: 10.5054 - mean\_absolute\_error: 2.46311525/4840 [========>.....................] - ETA: 2s - loss: 10.4815 - mean\_absolute\_error: 2.46071585/4840 [========>.....................] - ETA: 2s - loss: 10.4787 - mean\_absolute\_error: 2.45971643/4840 [=========>....................] - ETA: 2s - loss: 10.4955 - mean\_absolute\_error: 2.46161700/4840 [=========>....................] - ETA: 2s - loss: 10.5011 - mean\_absolute\_error: 2.46261758/4840 [=========>....................] - ETA: 2s - loss: 10.5115 - mean\_absolute\_error: 2.46371818/4840 [==========>...................] - ETA: 2s - loss: 10.5174 - mean\_absolute\_error: 2.46441878/4840 [==========>...................] - ETA: 2s - loss: 10.5104 - mean\_absolute\_error: 2.46401938/4840 [===========>..................] - ETA: 2s - loss: 10.5179 - mean\_absolute\_error: 2.46531997/4840 [===========>..................] - ETA: 2s - loss: 10.5186 - mean\_absolute\_error: 2.46502057/4840 [===========>..................] - ETA: 2s - loss: 10.5123 - mean\_absolute\_error: 2.46342117/4840 [============>.................] - ETA: 2s - loss: 10.5062 - mean\_absolute\_error: 2.46232176/4840 [============>.................] - ETA: 2s - loss: 10.4970 - mean\_absolute\_error: 2.46152235/4840 [============>.................] - ETA: 2s - loss: 10.4984 - mean\_absolute\_error: 2.46192295/4840 [=============>................] - ETA: 2s - loss: 10.5099 - mean\_absolute\_error: 2.46332355/4840 [=============>................] - ETA: 2s - loss: 10.5107 - mean\_absolute\_error: 2.46412415/4840 [=============>................] - ETA: 2s - loss: 10.5025 - mean\_absolute\_error: 2.46312475/4840 [==============>...............] - ETA: 2s - loss: 10.5089 - mean\_absolute\_error: 2.46422534/4840 [==============>...............] - ETA: 1s - loss: 10.5190 - mean\_absolute\_error: 2.46482592/4840 [===============>..............] - ETA: 1s - loss: 10.5092 - mean\_absolute\_error: 2.46362652/4840 [===============>..............] - ETA: 1s - loss: 10.5158 - mean\_absolute\_error: 2.46422712/4840 [===============>..............] - ETA: 1s - loss: 10.5038 - mean\_absolute\_error: 2.46282773/4840 [================>.............] - ETA: 1s - loss: 10.5111 - mean\_absolute\_error: 2.46382831/4840 [================>.............] - ETA: 1s - loss: 10.5018 - mean\_absolute\_error: 2.46232890/4840 [================>.............] - ETA: 1s - loss: 10.5055 - mean\_absolute\_error: 2.46232949/4840 [=================>............] - ETA: 1s - loss: 10.5096 - mean\_absolute\_error: 2.46343009/4840 [=================>............] - ETA: 1s - loss: 10.5057 - mean\_absolute\_error: 2.46293069/4840 [==================>...........] - ETA: 1s - loss: 10.4903 - mean\_absolute\_error: 2.46173130/4840 [==================>...........] - ETA: 1s - loss: 10.4921 - mean\_absolute\_error: 2.46183189/4840 [==================>...........] - ETA: 1s - loss: 10.4952 - mean\_absolute\_error: 2.46253249/4840 [===================>..........] - ETA: 1s - loss: 10.5074 - mean\_absolute\_error: 2.46403307/4840 [===================>..........] - ETA: 1s - loss: 10.4985 - mean\_absolute\_error: 2.46273368/4840 [===================>..........] - ETA: 1s - loss: 10.4949 - mean\_absolute\_error: 2.46253429/4840 [====================>.........] - ETA: 1s - loss: 10.5010 - mean\_absolute\_error: 2.46303491/4840 [====================>.........] - ETA: 1s - loss: 10.5006 - mean\_absolute\_error: 2.46263551/4840 [=====================>........] - ETA: 1s - loss: 10.5101 - mean\_absolute\_error: 2.46403608/4840 [=====================>........] - ETA: 1s - loss: 10.5004 - mean\_absolute\_error: 2.46223667/4840 [=====================>........] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46253726/4840 [======================>.......] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46213784/4840 [======================>.......] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46223845/4840 [======================>.......] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46183905/4840 [=======================>......] - ETA: 0s - loss: 10.4945 - mean\_absolute\_error: 2.46083965/4840 [=======================>......] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46034023/4840 [=======================>......] - ETA: 0s - loss: 10.4952 - mean\_absolute\_error: 2.46074083/4840 [========================>.....] - ETA: 0s - loss: 10.4922 - mean\_absolute\_error: 2.46014142/4840 [========================>.....] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46014202/4840 [=========================>....] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46024262/4840 [=========================>....] - ETA: 0s - loss: 10.4983 - mean\_absolute\_error: 2.46124322/4840 [=========================>....] - ETA: 0s - loss: 10.5056 - mean\_absolute\_error: 2.46214380/4840 [==========================>...] - ETA: 0s - loss: 10.5092 - mean\_absolute\_error: 2.46244439/4840 [==========================>...] - ETA: 0s - loss: 10.5009 - mean\_absolute\_error: 2.46144498/4840 [==========================>...] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.46104556/4840 [===========================>..] - ETA: 0s - loss: 10.5095 - mean\_absolute\_error: 2.46244616/4840 [===========================>..] - ETA: 0s - loss: 10.5143 - mean\_absolute\_error: 2.46304676/4840 [===========================>..] - ETA: 0s - loss: 10.5157 - mean\_absolute\_error: 2.46314735/4840 [============================>.] - ETA: 0s - loss: 10.5118 - mean\_absolute\_error: 2.46264796/4840 [============================>.] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 892us/step - loss: 10.5030 - mean\_absolute\_error: 2.4617 - val\_loss: 11.4840 - val\_mean\_absolute\_error: 2.5802  
Epoch 53/100  
 1/4840 [..............................] - ETA: 4s - loss: 5.1964 - mean\_absolute\_error: 1.7379 60/4840 [..............................] - ETA: 4s - loss: 10.5327 - mean\_absolute\_error: 2.4718 119/4840 [..............................] - ETA: 4s - loss: 10.6134 - mean\_absolute\_error: 2.4718 180/4840 [>.............................] - ETA: 3s - loss: 10.5192 - mean\_absolute\_error: 2.4506 240/4840 [>.............................] - ETA: 3s - loss: 10.5699 - mean\_absolute\_error: 2.4630 300/4840 [>.............................] - ETA: 3s - loss: 10.7283 - mean\_absolute\_error: 2.4809 361/4840 [=>............................] - ETA: 3s - loss: 10.7220 - mean\_absolute\_error: 2.4876 422/4840 [=>............................] - ETA: 3s - loss: 10.7318 - mean\_absolute\_error: 2.4862 483/4840 [=>............................] - ETA: 3s - loss: 10.6970 - mean\_absolute\_error: 2.4817 542/4840 [==>...........................] - ETA: 3s - loss: 10.7127 - mean\_absolute\_error: 2.4847 602/4840 [==>...........................] - ETA: 3s - loss: 10.6582 - mean\_absolute\_error: 2.4779 662/4840 [===>..........................] - ETA: 3s - loss: 10.7021 - mean\_absolute\_error: 2.4841 721/4840 [===>..........................] - ETA: 3s - loss: 10.6391 - mean\_absolute\_error: 2.4764 781/4840 [===>..........................] - ETA: 3s - loss: 10.6032 - mean\_absolute\_error: 2.4718 840/4840 [====>.........................] - ETA: 3s - loss: 10.5731 - mean\_absolute\_error: 2.4665 898/4840 [====>.........................] - ETA: 3s - loss: 10.5500 - mean\_absolute\_error: 2.4642 957/4840 [====>.........................] - ETA: 3s - loss: 10.5470 - mean\_absolute\_error: 2.46331016/4840 [=====>........................] - ETA: 3s - loss: 10.5484 - mean\_absolute\_error: 2.46411077/4840 [=====>........................] - ETA: 3s - loss: 10.5663 - mean\_absolute\_error: 2.46511137/4840 [======>.......................] - ETA: 3s - loss: 10.5420 - mean\_absolute\_error: 2.46401196/4840 [======>.......................] - ETA: 3s - loss: 10.5480 - mean\_absolute\_error: 2.46441254/4840 [======>.......................] - ETA: 3s - loss: 10.5382 - mean\_absolute\_error: 2.46311312/4840 [=======>......................] - ETA: 2s - loss: 10.5325 - mean\_absolute\_error: 2.46311372/4840 [=======>......................] - ETA: 2s - loss: 10.5191 - mean\_absolute\_error: 2.46121433/4840 [=======>......................] - ETA: 2s - loss: 10.4958 - mean\_absolute\_error: 2.45871492/4840 [========>.....................] - ETA: 2s - loss: 10.5194 - mean\_absolute\_error: 2.46241552/4840 [========>.....................] - ETA: 2s - loss: 10.5335 - mean\_absolute\_error: 2.46441613/4840 [========>.....................] - ETA: 2s - loss: 10.4963 - mean\_absolute\_error: 2.45941673/4840 [=========>....................] - ETA: 2s - loss: 10.4911 - mean\_absolute\_error: 2.45911732/4840 [=========>....................] - ETA: 2s - loss: 10.4748 - mean\_absolute\_error: 2.45611792/4840 [==========>...................] - ETA: 2s - loss: 10.4834 - mean\_absolute\_error: 2.45621851/4840 [==========>...................] - ETA: 2s - loss: 10.4681 - mean\_absolute\_error: 2.45361911/4840 [==========>...................] - ETA: 2s - loss: 10.4654 - mean\_absolute\_error: 2.45351972/4840 [===========>..................] - ETA: 2s - loss: 10.4657 - mean\_absolute\_error: 2.45442031/4840 [===========>..................] - ETA: 2s - loss: 10.4731 - mean\_absolute\_error: 2.45572090/4840 [===========>..................] - ETA: 2s - loss: 10.4839 - mean\_absolute\_error: 2.45842147/4840 [============>.................] - ETA: 2s - loss: 10.4933 - mean\_absolute\_error: 2.46022207/4840 [============>.................] - ETA: 2s - loss: 10.4773 - mean\_absolute\_error: 2.45822266/4840 [=============>................] - ETA: 2s - loss: 10.4754 - mean\_absolute\_error: 2.45822325/4840 [=============>................] - ETA: 2s - loss: 10.4882 - mean\_absolute\_error: 2.46002384/4840 [=============>................] - ETA: 2s - loss: 10.4988 - mean\_absolute\_error: 2.46182445/4840 [==============>...............] - ETA: 2s - loss: 10.4956 - mean\_absolute\_error: 2.46122502/4840 [==============>...............] - ETA: 1s - loss: 10.4822 - mean\_absolute\_error: 2.45922559/4840 [==============>...............] - ETA: 1s - loss: 10.4918 - mean\_absolute\_error: 2.45982618/4840 [===============>..............] - ETA: 1s - loss: 10.4859 - mean\_absolute\_error: 2.45942677/4840 [===============>..............] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46052737/4840 [===============>..............] - ETA: 1s - loss: 10.4926 - mean\_absolute\_error: 2.46022798/4840 [================>.............] - ETA: 1s - loss: 10.4855 - mean\_absolute\_error: 2.45982857/4840 [================>.............] - ETA: 1s - loss: 10.4953 - mean\_absolute\_error: 2.46132916/4840 [=================>............] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46092975/4840 [=================>............] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45943033/4840 [=================>............] - ETA: 1s - loss: 10.4873 - mean\_absolute\_error: 2.45973092/4840 [==================>...........] - ETA: 1s - loss: 10.4788 - mean\_absolute\_error: 2.45833151/4840 [==================>...........] - ETA: 1s - loss: 10.4831 - mean\_absolute\_error: 2.45843211/4840 [==================>...........] - ETA: 1s - loss: 10.4910 - mean\_absolute\_error: 2.45963269/4840 [===================>..........] - ETA: 1s - loss: 10.4898 - mean\_absolute\_error: 2.46033329/4840 [===================>..........] - ETA: 1s - loss: 10.4856 - mean\_absolute\_error: 2.45923387/4840 [===================>..........] - ETA: 1s - loss: 10.4872 - mean\_absolute\_error: 2.45923446/4840 [====================>.........] - ETA: 1s - loss: 10.4938 - mean\_absolute\_error: 2.46023504/4840 [====================>.........] - ETA: 1s - loss: 10.5014 - mean\_absolute\_error: 2.46093563/4840 [=====================>........] - ETA: 1s - loss: 10.4937 - mean\_absolute\_error: 2.46033621/4840 [=====================>........] - ETA: 1s - loss: 10.4963 - mean\_absolute\_error: 2.46063678/4840 [=====================>........] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46043736/4840 [======================>.......] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.45993795/4840 [======================>.......] - ETA: 0s - loss: 10.4954 - mean\_absolute\_error: 2.46053854/4840 [======================>.......] - ETA: 0s - loss: 10.4923 - mean\_absolute\_error: 2.46023913/4840 [=======================>......] - ETA: 0s - loss: 10.4907 - mean\_absolute\_error: 2.46003973/4840 [=======================>......] - ETA: 0s - loss: 10.4902 - mean\_absolute\_error: 2.45954033/4840 [=======================>......] - ETA: 0s - loss: 10.4889 - mean\_absolute\_error: 2.46004092/4840 [========================>.....] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.45964150/4840 [========================>.....] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.45974209/4840 [=========================>....] - ETA: 0s - loss: 10.4812 - mean\_absolute\_error: 2.45854268/4840 [=========================>....] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45924327/4840 [=========================>....] - ETA: 0s - loss: 10.4892 - mean\_absolute\_error: 2.45974387/4840 [==========================>...] - ETA: 0s - loss: 10.4893 - mean\_absolute\_error: 2.45994446/4840 [==========================>...] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46104503/4840 [==========================>...] - ETA: 0s - loss: 10.4965 - mean\_absolute\_error: 2.46074562/4840 [===========================>..] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46094621/4840 [===========================>..] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46194680/4840 [============================>.] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46134740/4840 [============================>.] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46174797/4840 [============================>.] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 894us/step - loss: 10.5029 - mean\_absolute\_error: 2.4617 - val\_loss: 11.4853 - val\_mean\_absolute\_error: 2.5805  
Epoch 54/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.2412 - mean\_absolute\_error: 2.3341 61/4840 [..............................] - ETA: 4s - loss: 10.6371 - mean\_absolute\_error: 2.4929 121/4840 [..............................] - ETA: 3s - loss: 10.1952 - mean\_absolute\_error: 2.4176 180/4840 [>.............................] - ETA: 3s - loss: 10.3628 - mean\_absolute\_error: 2.4426 239/4840 [>.............................] - ETA: 3s - loss: 10.4063 - mean\_absolute\_error: 2.4533 296/4840 [>.............................] - ETA: 3s - loss: 10.5187 - mean\_absolute\_error: 2.4657 356/4840 [=>............................] - ETA: 3s - loss: 10.5558 - mean\_absolute\_error: 2.4709 415/4840 [=>............................] - ETA: 3s - loss: 10.5759 - mean\_absolute\_error: 2.4732 473/4840 [=>............................] - ETA: 3s - loss: 10.6125 - mean\_absolute\_error: 2.4789 533/4840 [==>...........................] - ETA: 3s - loss: 10.6204 - mean\_absolute\_error: 2.4805 591/4840 [==>...........................] - ETA: 3s - loss: 10.6016 - mean\_absolute\_error: 2.4780 649/4840 [===>..........................] - ETA: 3s - loss: 10.5826 - mean\_absolute\_error: 2.4758 709/4840 [===>..........................] - ETA: 3s - loss: 10.5665 - mean\_absolute\_error: 2.4756 768/4840 [===>..........................] - ETA: 3s - loss: 10.5447 - mean\_absolute\_error: 2.4728 828/4840 [====>.........................] - ETA: 3s - loss: 10.4507 - mean\_absolute\_error: 2.4598 886/4840 [====>.........................] - ETA: 3s - loss: 10.4574 - mean\_absolute\_error: 2.4619 944/4840 [====>.........................] - ETA: 3s - loss: 10.4729 - mean\_absolute\_error: 2.46241002/4840 [=====>........................] - ETA: 3s - loss: 10.4604 - mean\_absolute\_error: 2.46051061/4840 [=====>........................] - ETA: 3s - loss: 10.4277 - mean\_absolute\_error: 2.45521121/4840 [=====>........................] - ETA: 3s - loss: 10.4208 - mean\_absolute\_error: 2.45381181/4840 [======>.......................] - ETA: 3s - loss: 10.3879 - mean\_absolute\_error: 2.44911240/4840 [======>.......................] - ETA: 3s - loss: 10.3908 - mean\_absolute\_error: 2.44961300/4840 [=======>......................] - ETA: 3s - loss: 10.3926 - mean\_absolute\_error: 2.44861360/4840 [=======>......................] - ETA: 2s - loss: 10.3895 - mean\_absolute\_error: 2.44881419/4840 [=======>......................] - ETA: 2s - loss: 10.3805 - mean\_absolute\_error: 2.44781476/4840 [========>.....................] - ETA: 2s - loss: 10.3782 - mean\_absolute\_error: 2.44721536/4840 [========>.....................] - ETA: 2s - loss: 10.3977 - mean\_absolute\_error: 2.45041595/4840 [========>.....................] - ETA: 2s - loss: 10.3989 - mean\_absolute\_error: 2.44991655/4840 [=========>....................] - ETA: 2s - loss: 10.3856 - mean\_absolute\_error: 2.44781713/4840 [=========>....................] - ETA: 2s - loss: 10.3989 - mean\_absolute\_error: 2.44951772/4840 [=========>....................] - ETA: 2s - loss: 10.3932 - mean\_absolute\_error: 2.44921831/4840 [==========>...................] - ETA: 2s - loss: 10.3931 - mean\_absolute\_error: 2.44821889/4840 [==========>...................] - ETA: 2s - loss: 10.4025 - mean\_absolute\_error: 2.44891948/4840 [===========>..................] - ETA: 2s - loss: 10.4117 - mean\_absolute\_error: 2.45052007/4840 [===========>..................] - ETA: 2s - loss: 10.4130 - mean\_absolute\_error: 2.45052064/4840 [===========>..................] - ETA: 2s - loss: 10.4235 - mean\_absolute\_error: 2.45162121/4840 [============>.................] - ETA: 2s - loss: 10.4254 - mean\_absolute\_error: 2.45202178/4840 [============>.................] - ETA: 2s - loss: 10.4223 - mean\_absolute\_error: 2.45202234/4840 [============>.................] - ETA: 2s - loss: 10.4292 - mean\_absolute\_error: 2.45312291/4840 [=============>................] - ETA: 2s - loss: 10.4310 - mean\_absolute\_error: 2.45322350/4840 [=============>................] - ETA: 2s - loss: 10.4452 - mean\_absolute\_error: 2.45552408/4840 [=============>................] - ETA: 2s - loss: 10.4472 - mean\_absolute\_error: 2.45562468/4840 [==============>...............] - ETA: 2s - loss: 10.4343 - mean\_absolute\_error: 2.45352528/4840 [==============>...............] - ETA: 1s - loss: 10.4266 - mean\_absolute\_error: 2.45292587/4840 [===============>..............] - ETA: 1s - loss: 10.4574 - mean\_absolute\_error: 2.45622645/4840 [===============>..............] - ETA: 1s - loss: 10.4617 - mean\_absolute\_error: 2.45662702/4840 [===============>..............] - ETA: 1s - loss: 10.4631 - mean\_absolute\_error: 2.45722758/4840 [================>.............] - ETA: 1s - loss: 10.4723 - mean\_absolute\_error: 2.45782815/4840 [================>.............] - ETA: 1s - loss: 10.4731 - mean\_absolute\_error: 2.45762871/4840 [================>.............] - ETA: 1s - loss: 10.4773 - mean\_absolute\_error: 2.45762931/4840 [=================>............] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45832990/4840 [=================>............] - ETA: 1s - loss: 10.4816 - mean\_absolute\_error: 2.45833051/4840 [=================>............] - ETA: 1s - loss: 10.4832 - mean\_absolute\_error: 2.45823111/4840 [==================>...........] - ETA: 1s - loss: 10.4856 - mean\_absolute\_error: 2.45853170/4840 [==================>...........] - ETA: 1s - loss: 10.4808 - mean\_absolute\_error: 2.45803225/4840 [==================>...........] - ETA: 1s - loss: 10.4892 - mean\_absolute\_error: 2.45943283/4840 [===================>..........] - ETA: 1s - loss: 10.4871 - mean\_absolute\_error: 2.45933335/4840 [===================>..........] - ETA: 1s - loss: 10.4795 - mean\_absolute\_error: 2.45813385/4840 [===================>..........] - ETA: 1s - loss: 10.4874 - mean\_absolute\_error: 2.45903441/4840 [====================>.........] - ETA: 1s - loss: 10.4996 - mean\_absolute\_error: 2.46093499/4840 [====================>.........] - ETA: 1s - loss: 10.4986 - mean\_absolute\_error: 2.46063556/4840 [=====================>........] - ETA: 1s - loss: 10.5075 - mean\_absolute\_error: 2.46203614/4840 [=====================>........] - ETA: 1s - loss: 10.5064 - mean\_absolute\_error: 2.46183673/4840 [=====================>........] - ETA: 1s - loss: 10.5072 - mean\_absolute\_error: 2.46213730/4840 [======================>.......] - ETA: 0s - loss: 10.5071 - mean\_absolute\_error: 2.46203789/4840 [======================>.......] - ETA: 0s - loss: 10.5023 - mean\_absolute\_error: 2.46183846/4840 [======================>.......] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46243903/4840 [=======================>......] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46263962/4840 [=======================>......] - ETA: 0s - loss: 10.5028 - mean\_absolute\_error: 2.46244020/4840 [=======================>......] - ETA: 0s - loss: 10.5061 - mean\_absolute\_error: 2.46274076/4840 [========================>.....] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46234134/4840 [========================>.....] - ETA: 0s - loss: 10.5076 - mean\_absolute\_error: 2.46284193/4840 [========================>.....] - ETA: 0s - loss: 10.5130 - mean\_absolute\_error: 2.46354252/4840 [=========================>....] - ETA: 0s - loss: 10.5149 - mean\_absolute\_error: 2.46384311/4840 [=========================>....] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46434368/4840 [==========================>...] - ETA: 0s - loss: 10.5202 - mean\_absolute\_error: 2.46474426/4840 [==========================>...] - ETA: 0s - loss: 10.5139 - mean\_absolute\_error: 2.46364485/4840 [==========================>...] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46234544/4840 [===========================>..] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46184603/4840 [===========================>..] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46194663/4840 [===========================>..] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46234723/4840 [============================>.] - ETA: 0s - loss: 10.5047 - mean\_absolute\_error: 2.46254783/4840 [============================>.] - ETA: 0s - loss: 10.5073 - mean\_absolute\_error: 2.46254840/4840 [==============================] - 4s 904us/step - loss: 10.5029 - mean\_absolute\_error: 2.4619 - val\_loss: 11.4881 - val\_mean\_absolute\_error: 2.5805  
Epoch 55/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.7177 - mean\_absolute\_error: 2.5717 61/4840 [..............................] - ETA: 4s - loss: 11.1832 - mean\_absolute\_error: 2.5337 121/4840 [..............................] - ETA: 3s - loss: 10.5192 - mean\_absolute\_error: 2.4555 182/4840 [>.............................] - ETA: 3s - loss: 10.4312 - mean\_absolute\_error: 2.4423 242/4840 [>.............................] - ETA: 3s - loss: 10.5291 - mean\_absolute\_error: 2.4670 301/4840 [>.............................] - ETA: 3s - loss: 10.4814 - mean\_absolute\_error: 2.4636 361/4840 [=>............................] - ETA: 3s - loss: 10.4864 - mean\_absolute\_error: 2.4646 422/4840 [=>............................] - ETA: 3s - loss: 10.5270 - mean\_absolute\_error: 2.4702 478/4840 [=>............................] - ETA: 3s - loss: 10.5473 - mean\_absolute\_error: 2.4708 537/4840 [==>...........................] - ETA: 3s - loss: 10.5371 - mean\_absolute\_error: 2.4690 595/4840 [==>...........................] - ETA: 3s - loss: 10.5747 - mean\_absolute\_error: 2.4736 653/4840 [===>..........................] - ETA: 3s - loss: 10.5834 - mean\_absolute\_error: 2.4755 713/4840 [===>..........................] - ETA: 3s - loss: 10.5231 - mean\_absolute\_error: 2.4669 773/4840 [===>..........................] - ETA: 3s - loss: 10.5034 - mean\_absolute\_error: 2.4639 833/4840 [====>.........................] - ETA: 3s - loss: 10.4983 - mean\_absolute\_error: 2.4632 894/4840 [====>.........................] - ETA: 3s - loss: 10.4580 - mean\_absolute\_error: 2.4555 954/4840 [====>.........................] - ETA: 3s - loss: 10.4277 - mean\_absolute\_error: 2.45211012/4840 [=====>........................] - ETA: 3s - loss: 10.4596 - mean\_absolute\_error: 2.45711070/4840 [=====>........................] - ETA: 3s - loss: 10.4150 - mean\_absolute\_error: 2.45111130/4840 [======>.......................] - ETA: 3s - loss: 10.4123 - mean\_absolute\_error: 2.45021189/4840 [======>.......................] - ETA: 3s - loss: 10.4185 - mean\_absolute\_error: 2.45181249/4840 [======>.......................] - ETA: 3s - loss: 10.4287 - mean\_absolute\_error: 2.45361306/4840 [=======>......................] - ETA: 3s - loss: 10.4435 - mean\_absolute\_error: 2.45361364/4840 [=======>......................] - ETA: 2s - loss: 10.4387 - mean\_absolute\_error: 2.45261423/4840 [=======>......................] - ETA: 2s - loss: 10.4406 - mean\_absolute\_error: 2.45131484/4840 [========>.....................] - ETA: 2s - loss: 10.4445 - mean\_absolute\_error: 2.45161544/4840 [========>.....................] - ETA: 2s - loss: 10.4542 - mean\_absolute\_error: 2.45341605/4840 [========>.....................] - ETA: 2s - loss: 10.4656 - mean\_absolute\_error: 2.45461658/4840 [=========>....................] - ETA: 2s - loss: 10.4664 - mean\_absolute\_error: 2.45571717/4840 [=========>....................] - ETA: 2s - loss: 10.4875 - mean\_absolute\_error: 2.45771776/4840 [==========>...................] - ETA: 2s - loss: 10.4760 - mean\_absolute\_error: 2.45691836/4840 [==========>...................] - ETA: 2s - loss: 10.4580 - mean\_absolute\_error: 2.45501896/4840 [==========>...................] - ETA: 2s - loss: 10.4617 - mean\_absolute\_error: 2.45541956/4840 [===========>..................] - ETA: 2s - loss: 10.4694 - mean\_absolute\_error: 2.45672016/4840 [===========>..................] - ETA: 2s - loss: 10.4750 - mean\_absolute\_error: 2.45732077/4840 [===========>..................] - ETA: 2s - loss: 10.4867 - mean\_absolute\_error: 2.45872137/4840 [============>.................] - ETA: 2s - loss: 10.4801 - mean\_absolute\_error: 2.45832196/4840 [============>.................] - ETA: 2s - loss: 10.4902 - mean\_absolute\_error: 2.45982255/4840 [============>.................] - ETA: 2s - loss: 10.4823 - mean\_absolute\_error: 2.45952315/4840 [=============>................] - ETA: 2s - loss: 10.4720 - mean\_absolute\_error: 2.45772373/4840 [=============>................] - ETA: 2s - loss: 10.4884 - mean\_absolute\_error: 2.46002434/4840 [==============>...............] - ETA: 2s - loss: 10.4912 - mean\_absolute\_error: 2.46152494/4840 [==============>...............] - ETA: 1s - loss: 10.4926 - mean\_absolute\_error: 2.46132556/4840 [==============>...............] - ETA: 1s - loss: 10.4969 - mean\_absolute\_error: 2.46172616/4840 [===============>..............] - ETA: 1s - loss: 10.5073 - mean\_absolute\_error: 2.46272676/4840 [===============>..............] - ETA: 1s - loss: 10.5101 - mean\_absolute\_error: 2.46332737/4840 [===============>..............] - ETA: 1s - loss: 10.4981 - mean\_absolute\_error: 2.46132796/4840 [================>.............] - ETA: 1s - loss: 10.5113 - mean\_absolute\_error: 2.46342854/4840 [================>.............] - ETA: 1s - loss: 10.5120 - mean\_absolute\_error: 2.46392912/4840 [=================>............] - ETA: 1s - loss: 10.5131 - mean\_absolute\_error: 2.46372972/4840 [=================>............] - ETA: 1s - loss: 10.5098 - mean\_absolute\_error: 2.46293031/4840 [=================>............] - ETA: 1s - loss: 10.5006 - mean\_absolute\_error: 2.46143090/4840 [==================>...........] - ETA: 1s - loss: 10.5075 - mean\_absolute\_error: 2.46233150/4840 [==================>...........] - ETA: 1s - loss: 10.5183 - mean\_absolute\_error: 2.46363211/4840 [==================>...........] - ETA: 1s - loss: 10.5208 - mean\_absolute\_error: 2.46403270/4840 [===================>..........] - ETA: 1s - loss: 10.5198 - mean\_absolute\_error: 2.46363330/4840 [===================>..........] - ETA: 1s - loss: 10.5095 - mean\_absolute\_error: 2.46243390/4840 [====================>.........] - ETA: 1s - loss: 10.5130 - mean\_absolute\_error: 2.46263450/4840 [====================>.........] - ETA: 1s - loss: 10.5066 - mean\_absolute\_error: 2.46173509/4840 [====================>.........] - ETA: 1s - loss: 10.5073 - mean\_absolute\_error: 2.46153568/4840 [=====================>........] - ETA: 1s - loss: 10.5098 - mean\_absolute\_error: 2.46193627/4840 [=====================>........] - ETA: 1s - loss: 10.5096 - mean\_absolute\_error: 2.46223686/4840 [=====================>........] - ETA: 0s - loss: 10.5190 - mean\_absolute\_error: 2.46333746/4840 [======================>.......] - ETA: 0s - loss: 10.5231 - mean\_absolute\_error: 2.46413807/4840 [======================>.......] - ETA: 0s - loss: 10.5289 - mean\_absolute\_error: 2.46473867/4840 [======================>.......] - ETA: 0s - loss: 10.5248 - mean\_absolute\_error: 2.46423928/4840 [=======================>......] - ETA: 0s - loss: 10.5231 - mean\_absolute\_error: 2.46393986/4840 [=======================>......] - ETA: 0s - loss: 10.5178 - mean\_absolute\_error: 2.46354044/4840 [========================>.....] - ETA: 0s - loss: 10.5183 - mean\_absolute\_error: 2.46374101/4840 [========================>.....] - ETA: 0s - loss: 10.5096 - mean\_absolute\_error: 2.46244160/4840 [========================>.....] - ETA: 0s - loss: 10.5168 - mean\_absolute\_error: 2.46334219/4840 [=========================>....] - ETA: 0s - loss: 10.5101 - mean\_absolute\_error: 2.46224280/4840 [=========================>....] - ETA: 0s - loss: 10.5075 - mean\_absolute\_error: 2.46234340/4840 [=========================>....] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46154400/4840 [==========================>...] - ETA: 0s - loss: 10.4959 - mean\_absolute\_error: 2.46084460/4840 [==========================>...] - ETA: 0s - loss: 10.4936 - mean\_absolute\_error: 2.46024520/4840 [===========================>..] - ETA: 0s - loss: 10.4950 - mean\_absolute\_error: 2.46044579/4840 [===========================>..] - ETA: 0s - loss: 10.4941 - mean\_absolute\_error: 2.46044639/4840 [===========================>..] - ETA: 0s - loss: 10.4966 - mean\_absolute\_error: 2.46084697/4840 [============================>.] - ETA: 0s - loss: 10.4948 - mean\_absolute\_error: 2.46044755/4840 [============================>.] - ETA: 0s - loss: 10.4987 - mean\_absolute\_error: 2.46124814/4840 [============================>.] - ETA: 0s - loss: 10.5002 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 894us/step - loss: 10.5024 - mean\_absolute\_error: 2.4618 - val\_loss: 11.4846 - val\_mean\_absolute\_error: 2.5803  
Epoch 56/100  
 1/4840 [..............................] - ETA: 4s - loss: 12.8507 - mean\_absolute\_error: 2.9518 60/4840 [..............................] - ETA: 4s - loss: 10.5842 - mean\_absolute\_error: 2.4818 119/4840 [..............................] - ETA: 4s - loss: 10.5797 - mean\_absolute\_error: 2.4758 177/4840 [>.............................] - ETA: 4s - loss: 10.5308 - mean\_absolute\_error: 2.4774 238/4840 [>.............................] - ETA: 3s - loss: 10.5384 - mean\_absolute\_error: 2.4693 298/4840 [>.............................] - ETA: 3s - loss: 10.5134 - mean\_absolute\_error: 2.4649 358/4840 [=>............................] - ETA: 3s - loss: 10.5009 - mean\_absolute\_error: 2.4610 417/4840 [=>............................] - ETA: 3s - loss: 10.5073 - mean\_absolute\_error: 2.4643 477/4840 [=>............................] - ETA: 3s - loss: 10.5193 - mean\_absolute\_error: 2.4642 537/4840 [==>...........................] - ETA: 3s - loss: 10.5073 - mean\_absolute\_error: 2.4608 597/4840 [==>...........................] - ETA: 3s - loss: 10.4818 - mean\_absolute\_error: 2.4581 657/4840 [===>..........................] - ETA: 3s - loss: 10.4609 - mean\_absolute\_error: 2.4545 717/4840 [===>..........................] - ETA: 3s - loss: 10.4174 - mean\_absolute\_error: 2.4486 775/4840 [===>..........................] - ETA: 3s - loss: 10.4719 - mean\_absolute\_error: 2.4552 834/4840 [====>.........................] - ETA: 3s - loss: 10.4866 - mean\_absolute\_error: 2.4566 892/4840 [====>.........................] - ETA: 3s - loss: 10.4939 - mean\_absolute\_error: 2.4564 950/4840 [====>.........................] - ETA: 3s - loss: 10.4867 - mean\_absolute\_error: 2.45531010/4840 [=====>........................] - ETA: 3s - loss: 10.4897 - mean\_absolute\_error: 2.45541070/4840 [=====>........................] - ETA: 3s - loss: 10.4877 - mean\_absolute\_error: 2.45621130/4840 [======>.......................] - ETA: 3s - loss: 10.4849 - mean\_absolute\_error: 2.45611190/4840 [======>.......................] - ETA: 3s - loss: 10.4863 - mean\_absolute\_error: 2.45541248/4840 [======>.......................] - ETA: 3s - loss: 10.5006 - mean\_absolute\_error: 2.45751306/4840 [=======>......................] - ETA: 2s - loss: 10.4789 - mean\_absolute\_error: 2.45421365/4840 [=======>......................] - ETA: 2s - loss: 10.4892 - mean\_absolute\_error: 2.45661426/4840 [=======>......................] - ETA: 2s - loss: 10.4823 - mean\_absolute\_error: 2.45671486/4840 [========>.....................] - ETA: 2s - loss: 10.4563 - mean\_absolute\_error: 2.45321547/4840 [========>.....................] - ETA: 2s - loss: 10.4434 - mean\_absolute\_error: 2.45241607/4840 [========>.....................] - ETA: 2s - loss: 10.4342 - mean\_absolute\_error: 2.45241667/4840 [=========>....................] - ETA: 2s - loss: 10.4282 - mean\_absolute\_error: 2.45191727/4840 [=========>....................] - ETA: 2s - loss: 10.4322 - mean\_absolute\_error: 2.45231787/4840 [==========>...................] - ETA: 2s - loss: 10.4253 - mean\_absolute\_error: 2.45171847/4840 [==========>...................] - ETA: 2s - loss: 10.4244 - mean\_absolute\_error: 2.45161908/4840 [==========>...................] - ETA: 2s - loss: 10.4156 - mean\_absolute\_error: 2.45041966/4840 [===========>..................] - ETA: 2s - loss: 10.4319 - mean\_absolute\_error: 2.45242024/4840 [===========>..................] - ETA: 2s - loss: 10.4473 - mean\_absolute\_error: 2.45412084/4840 [===========>..................] - ETA: 2s - loss: 10.4168 - mean\_absolute\_error: 2.45072145/4840 [============>.................] - ETA: 2s - loss: 10.4283 - mean\_absolute\_error: 2.45252204/4840 [============>.................] - ETA: 2s - loss: 10.4193 - mean\_absolute\_error: 2.45122265/4840 [=============>................] - ETA: 2s - loss: 10.4068 - mean\_absolute\_error: 2.44922324/4840 [=============>................] - ETA: 2s - loss: 10.4098 - mean\_absolute\_error: 2.44902385/4840 [=============>................] - ETA: 2s - loss: 10.4069 - mean\_absolute\_error: 2.44912443/4840 [==============>...............] - ETA: 2s - loss: 10.3957 - mean\_absolute\_error: 2.44712502/4840 [==============>...............] - ETA: 1s - loss: 10.3842 - mean\_absolute\_error: 2.44652561/4840 [==============>...............] - ETA: 1s - loss: 10.3810 - mean\_absolute\_error: 2.44642621/4840 [===============>..............] - ETA: 1s - loss: 10.3850 - mean\_absolute\_error: 2.44642682/4840 [===============>..............] - ETA: 1s - loss: 10.3877 - mean\_absolute\_error: 2.44672742/4840 [===============>..............] - ETA: 1s - loss: 10.3962 - mean\_absolute\_error: 2.44842799/4840 [================>.............] - ETA: 1s - loss: 10.4143 - mean\_absolute\_error: 2.45082858/4840 [================>.............] - ETA: 1s - loss: 10.4327 - mean\_absolute\_error: 2.45252918/4840 [=================>............] - ETA: 1s - loss: 10.4226 - mean\_absolute\_error: 2.45112977/4840 [=================>............] - ETA: 1s - loss: 10.4119 - mean\_absolute\_error: 2.44993037/4840 [=================>............] - ETA: 1s - loss: 10.4122 - mean\_absolute\_error: 2.44983098/4840 [==================>...........] - ETA: 1s - loss: 10.4082 - mean\_absolute\_error: 2.44953157/4840 [==================>...........] - ETA: 1s - loss: 10.4025 - mean\_absolute\_error: 2.44843215/4840 [==================>...........] - ETA: 1s - loss: 10.4096 - mean\_absolute\_error: 2.44913272/4840 [===================>..........] - ETA: 1s - loss: 10.4056 - mean\_absolute\_error: 2.44853331/4840 [===================>..........] - ETA: 1s - loss: 10.4189 - mean\_absolute\_error: 2.45003391/4840 [====================>.........] - ETA: 1s - loss: 10.4241 - mean\_absolute\_error: 2.45093451/4840 [====================>.........] - ETA: 1s - loss: 10.4270 - mean\_absolute\_error: 2.45113511/4840 [====================>.........] - ETA: 1s - loss: 10.4448 - mean\_absolute\_error: 2.45393570/4840 [=====================>........] - ETA: 1s - loss: 10.4600 - mean\_absolute\_error: 2.45603628/4840 [=====================>........] - ETA: 1s - loss: 10.4570 - mean\_absolute\_error: 2.45533688/4840 [=====================>........] - ETA: 0s - loss: 10.4561 - mean\_absolute\_error: 2.45523747/4840 [======================>.......] - ETA: 0s - loss: 10.4613 - mean\_absolute\_error: 2.45543806/4840 [======================>.......] - ETA: 0s - loss: 10.4625 - mean\_absolute\_error: 2.45523866/4840 [======================>.......] - ETA: 0s - loss: 10.4703 - mean\_absolute\_error: 2.45603927/4840 [=======================>......] - ETA: 0s - loss: 10.4716 - mean\_absolute\_error: 2.45603987/4840 [=======================>......] - ETA: 0s - loss: 10.4749 - mean\_absolute\_error: 2.45634048/4840 [========================>.....] - ETA: 0s - loss: 10.4664 - mean\_absolute\_error: 2.45504108/4840 [========================>.....] - ETA: 0s - loss: 10.4693 - mean\_absolute\_error: 2.45524168/4840 [========================>.....] - ETA: 0s - loss: 10.4752 - mean\_absolute\_error: 2.45634226/4840 [=========================>....] - ETA: 0s - loss: 10.4727 - mean\_absolute\_error: 2.45594287/4840 [=========================>....] - ETA: 0s - loss: 10.4813 - mean\_absolute\_error: 2.45714346/4840 [=========================>....] - ETA: 0s - loss: 10.4858 - mean\_absolute\_error: 2.45754402/4840 [==========================>...] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45714460/4840 [==========================>...] - ETA: 0s - loss: 10.4892 - mean\_absolute\_error: 2.45884520/4840 [===========================>..] - ETA: 0s - loss: 10.4898 - mean\_absolute\_error: 2.45894580/4840 [===========================>..] - ETA: 0s - loss: 10.4947 - mean\_absolute\_error: 2.45984640/4840 [===========================>..] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46064700/4840 [============================>.] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46114760/4840 [============================>.] - ETA: 0s - loss: 10.5037 - mean\_absolute\_error: 2.46114818/4840 [============================>.] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46124840/4840 [==============================] - 4s 889us/step - loss: 10.5036 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4868 - val\_mean\_absolute\_error: 2.5806  
Epoch 57/100  
 1/4840 [..............................] - ETA: 4s - loss: 6.3099 - mean\_absolute\_error: 2.1691 60/4840 [..............................] - ETA: 4s - loss: 10.6073 - mean\_absolute\_error: 2.4870 120/4840 [..............................] - ETA: 3s - loss: 10.7633 - mean\_absolute\_error: 2.5241 179/4840 [>.............................] - ETA: 3s - loss: 10.5006 - mean\_absolute\_error: 2.4823 240/4840 [>.............................] - ETA: 3s - loss: 10.5816 - mean\_absolute\_error: 2.4827 300/4840 [>.............................] - ETA: 3s - loss: 10.5679 - mean\_absolute\_error: 2.4787 360/4840 [=>............................] - ETA: 3s - loss: 10.6379 - mean\_absolute\_error: 2.4849 418/4840 [=>............................] - ETA: 3s - loss: 10.6834 - mean\_absolute\_error: 2.4913 477/4840 [=>............................] - ETA: 3s - loss: 10.7504 - mean\_absolute\_error: 2.5013 536/4840 [==>...........................] - ETA: 3s - loss: 10.7286 - mean\_absolute\_error: 2.4977 593/4840 [==>...........................] - ETA: 3s - loss: 10.6644 - mean\_absolute\_error: 2.4880 652/4840 [===>..........................] - ETA: 3s - loss: 10.6390 - mean\_absolute\_error: 2.4842 711/4840 [===>..........................] - ETA: 3s - loss: 10.6285 - mean\_absolute\_error: 2.4809 770/4840 [===>..........................] - ETA: 3s - loss: 10.6329 - mean\_absolute\_error: 2.4817 830/4840 [====>.........................] - ETA: 3s - loss: 10.6377 - mean\_absolute\_error: 2.4837 888/4840 [====>.........................] - ETA: 3s - loss: 10.6603 - mean\_absolute\_error: 2.4864 947/4840 [====>.........................] - ETA: 3s - loss: 10.6583 - mean\_absolute\_error: 2.48581006/4840 [=====>........................] - ETA: 3s - loss: 10.6476 - mean\_absolute\_error: 2.48451064/4840 [=====>........................] - ETA: 3s - loss: 10.6426 - mean\_absolute\_error: 2.48371123/4840 [=====>........................] - ETA: 3s - loss: 10.6399 - mean\_absolute\_error: 2.48211182/4840 [======>.......................] - ETA: 3s - loss: 10.6279 - mean\_absolute\_error: 2.48041242/4840 [======>.......................] - ETA: 3s - loss: 10.5941 - mean\_absolute\_error: 2.47591302/4840 [=======>......................] - ETA: 3s - loss: 10.5841 - mean\_absolute\_error: 2.47491362/4840 [=======>......................] - ETA: 2s - loss: 10.5835 - mean\_absolute\_error: 2.47491422/4840 [=======>......................] - ETA: 2s - loss: 10.5835 - mean\_absolute\_error: 2.47481482/4840 [========>.....................] - ETA: 2s - loss: 10.5650 - mean\_absolute\_error: 2.47241541/4840 [========>.....................] - ETA: 2s - loss: 10.5475 - mean\_absolute\_error: 2.47011601/4840 [========>.....................] - ETA: 2s - loss: 10.5489 - mean\_absolute\_error: 2.47131659/4840 [=========>....................] - ETA: 2s - loss: 10.5491 - mean\_absolute\_error: 2.47111717/4840 [=========>....................] - ETA: 2s - loss: 10.5429 - mean\_absolute\_error: 2.46931775/4840 [==========>...................] - ETA: 2s - loss: 10.5285 - mean\_absolute\_error: 2.46691835/4840 [==========>...................] - ETA: 2s - loss: 10.5056 - mean\_absolute\_error: 2.46431895/4840 [==========>...................] - ETA: 2s - loss: 10.5010 - mean\_absolute\_error: 2.46311954/4840 [===========>..................] - ETA: 2s - loss: 10.5037 - mean\_absolute\_error: 2.46332014/4840 [===========>..................] - ETA: 2s - loss: 10.5103 - mean\_absolute\_error: 2.46352071/4840 [===========>..................] - ETA: 2s - loss: 10.5077 - mean\_absolute\_error: 2.46312130/4840 [============>.................] - ETA: 2s - loss: 10.4873 - mean\_absolute\_error: 2.46042189/4840 [============>.................] - ETA: 2s - loss: 10.4950 - mean\_absolute\_error: 2.46132250/4840 [============>.................] - ETA: 2s - loss: 10.4929 - mean\_absolute\_error: 2.46162306/4840 [=============>................] - ETA: 2s - loss: 10.4895 - mean\_absolute\_error: 2.46162365/4840 [=============>................] - ETA: 2s - loss: 10.4846 - mean\_absolute\_error: 2.46132425/4840 [==============>...............] - ETA: 2s - loss: 10.4827 - mean\_absolute\_error: 2.46072485/4840 [==============>...............] - ETA: 2s - loss: 10.4757 - mean\_absolute\_error: 2.46042544/4840 [==============>...............] - ETA: 1s - loss: 10.4801 - mean\_absolute\_error: 2.46052604/4840 [===============>..............] - ETA: 1s - loss: 10.4833 - mean\_absolute\_error: 2.46142662/4840 [===============>..............] - ETA: 1s - loss: 10.4959 - mean\_absolute\_error: 2.46282722/4840 [===============>..............] - ETA: 1s - loss: 10.4889 - mean\_absolute\_error: 2.46222781/4840 [================>.............] - ETA: 1s - loss: 10.4926 - mean\_absolute\_error: 2.46282840/4840 [================>.............] - ETA: 1s - loss: 10.5032 - mean\_absolute\_error: 2.46422899/4840 [================>.............] - ETA: 1s - loss: 10.5105 - mean\_absolute\_error: 2.46502957/4840 [=================>............] - ETA: 1s - loss: 10.5018 - mean\_absolute\_error: 2.46383015/4840 [=================>............] - ETA: 1s - loss: 10.5016 - mean\_absolute\_error: 2.46423075/4840 [==================>...........] - ETA: 1s - loss: 10.4965 - mean\_absolute\_error: 2.46323136/4840 [==================>...........] - ETA: 1s - loss: 10.4819 - mean\_absolute\_error: 2.46093195/4840 [==================>...........] - ETA: 1s - loss: 10.4918 - mean\_absolute\_error: 2.46213252/4840 [===================>..........] - ETA: 1s - loss: 10.4859 - mean\_absolute\_error: 2.46123311/4840 [===================>..........] - ETA: 1s - loss: 10.4870 - mean\_absolute\_error: 2.46163371/4840 [===================>..........] - ETA: 1s - loss: 10.4999 - mean\_absolute\_error: 2.46333431/4840 [====================>.........] - ETA: 1s - loss: 10.4988 - mean\_absolute\_error: 2.46303491/4840 [====================>.........] - ETA: 1s - loss: 10.4972 - mean\_absolute\_error: 2.46273550/4840 [=====================>........] - ETA: 1s - loss: 10.5054 - mean\_absolute\_error: 2.46353610/4840 [=====================>........] - ETA: 1s - loss: 10.5149 - mean\_absolute\_error: 2.46463670/4840 [=====================>........] - ETA: 0s - loss: 10.5110 - mean\_absolute\_error: 2.46413730/4840 [======================>.......] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46393791/4840 [======================>.......] - ETA: 0s - loss: 10.5078 - mean\_absolute\_error: 2.46373850/4840 [======================>.......] - ETA: 0s - loss: 10.5086 - mean\_absolute\_error: 2.46393911/4840 [=======================>......] - ETA: 0s - loss: 10.5113 - mean\_absolute\_error: 2.46463970/4840 [=======================>......] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46524026/4840 [=======================>......] - ETA: 0s - loss: 10.5146 - mean\_absolute\_error: 2.46514083/4840 [========================>.....] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46454143/4840 [========================>.....] - ETA: 0s - loss: 10.5123 - mean\_absolute\_error: 2.46494203/4840 [=========================>....] - ETA: 0s - loss: 10.5099 - mean\_absolute\_error: 2.46474262/4840 [=========================>....] - ETA: 0s - loss: 10.5128 - mean\_absolute\_error: 2.46484322/4840 [=========================>....] - ETA: 0s - loss: 10.5122 - mean\_absolute\_error: 2.46494383/4840 [==========================>...] - ETA: 0s - loss: 10.5107 - mean\_absolute\_error: 2.46474440/4840 [==========================>...] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46464500/4840 [==========================>...] - ETA: 0s - loss: 10.5056 - mean\_absolute\_error: 2.46374560/4840 [===========================>..] - ETA: 0s - loss: 10.5042 - mean\_absolute\_error: 2.46354618/4840 [===========================>..] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46344678/4840 [===========================>..] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46284735/4840 [============================>.] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46304794/4840 [============================>.] - ETA: 0s - loss: 10.5024 - mean\_absolute\_error: 2.46294840/4840 [==============================] - 4s 893us/step - loss: 10.5023 - mean\_absolute\_error: 2.4627 - val\_loss: 11.4882 - val\_mean\_absolute\_error: 2.5803  
Epoch 58/100  
 1/4840 [..............................] - ETA: 4s - loss: 10.3393 - mean\_absolute\_error: 2.3942 59/4840 [..............................] - ETA: 4s - loss: 10.2809 - mean\_absolute\_error: 2.4152 117/4840 [..............................] - ETA: 4s - loss: 10.2954 - mean\_absolute\_error: 2.4275 176/4840 [>.............................] - ETA: 4s - loss: 10.2457 - mean\_absolute\_error: 2.4291 234/4840 [>.............................] - ETA: 3s - loss: 10.1067 - mean\_absolute\_error: 2.4134 293/4840 [>.............................] - ETA: 3s - loss: 10.2540 - mean\_absolute\_error: 2.4347 353/4840 [=>............................] - ETA: 3s - loss: 10.2819 - mean\_absolute\_error: 2.4414 413/4840 [=>............................] - ETA: 3s - loss: 10.2957 - mean\_absolute\_error: 2.4434 472/4840 [=>............................] - ETA: 3s - loss: 10.3481 - mean\_absolute\_error: 2.4459 528/4840 [==>...........................] - ETA: 3s - loss: 10.3994 - mean\_absolute\_error: 2.4542 585/4840 [==>...........................] - ETA: 3s - loss: 10.3611 - mean\_absolute\_error: 2.4495 643/4840 [==>...........................] - ETA: 3s - loss: 10.3141 - mean\_absolute\_error: 2.4440 697/4840 [===>..........................] - ETA: 3s - loss: 10.3514 - mean\_absolute\_error: 2.4477 755/4840 [===>..........................] - ETA: 3s - loss: 10.3641 - mean\_absolute\_error: 2.4494 812/4840 [====>.........................] - ETA: 3s - loss: 10.3584 - mean\_absolute\_error: 2.4479 872/4840 [====>.........................] - ETA: 3s - loss: 10.3446 - mean\_absolute\_error: 2.4447 931/4840 [====>.........................] - ETA: 3s - loss: 10.3723 - mean\_absolute\_error: 2.4467 991/4840 [=====>........................] - ETA: 3s - loss: 10.3719 - mean\_absolute\_error: 2.44591050/4840 [=====>........................] - ETA: 3s - loss: 10.3659 - mean\_absolute\_error: 2.44381109/4840 [=====>........................] - ETA: 3s - loss: 10.3617 - mean\_absolute\_error: 2.44331168/4840 [======>.......................] - ETA: 3s - loss: 10.3444 - mean\_absolute\_error: 2.44261227/4840 [======>.......................] - ETA: 3s - loss: 10.3277 - mean\_absolute\_error: 2.43991284/4840 [======>.......................] - ETA: 3s - loss: 10.3128 - mean\_absolute\_error: 2.43841343/4840 [=======>......................] - ETA: 3s - loss: 10.3258 - mean\_absolute\_error: 2.44101402/4840 [=======>......................] - ETA: 2s - loss: 10.3459 - mean\_absolute\_error: 2.44401461/4840 [========>.....................] - ETA: 2s - loss: 10.3710 - mean\_absolute\_error: 2.44781519/4840 [========>.....................] - ETA: 2s - loss: 10.4198 - mean\_absolute\_error: 2.45341578/4840 [========>.....................] - ETA: 2s - loss: 10.3947 - mean\_absolute\_error: 2.45021638/4840 [=========>....................] - ETA: 2s - loss: 10.3843 - mean\_absolute\_error: 2.45011695/4840 [=========>....................] - ETA: 2s - loss: 10.3837 - mean\_absolute\_error: 2.44911754/4840 [=========>....................] - ETA: 2s - loss: 10.3676 - mean\_absolute\_error: 2.44661812/4840 [==========>...................] - ETA: 2s - loss: 10.3749 - mean\_absolute\_error: 2.44731873/4840 [==========>...................] - ETA: 2s - loss: 10.3883 - mean\_absolute\_error: 2.44931934/4840 [==========>...................] - ETA: 2s - loss: 10.4084 - mean\_absolute\_error: 2.45221993/4840 [===========>..................] - ETA: 2s - loss: 10.4080 - mean\_absolute\_error: 2.45252052/4840 [===========>..................] - ETA: 2s - loss: 10.4224 - mean\_absolute\_error: 2.45442113/4840 [============>.................] - ETA: 2s - loss: 10.4212 - mean\_absolute\_error: 2.45362173/4840 [============>.................] - ETA: 2s - loss: 10.4267 - mean\_absolute\_error: 2.45342233/4840 [============>.................] - ETA: 2s - loss: 10.4401 - mean\_absolute\_error: 2.45532293/4840 [=============>................] - ETA: 2s - loss: 10.4265 - mean\_absolute\_error: 2.45412353/4840 [=============>................] - ETA: 2s - loss: 10.4251 - mean\_absolute\_error: 2.45372413/4840 [=============>................] - ETA: 2s - loss: 10.4316 - mean\_absolute\_error: 2.45532471/4840 [==============>...............] - ETA: 2s - loss: 10.4458 - mean\_absolute\_error: 2.45692527/4840 [==============>...............] - ETA: 1s - loss: 10.4260 - mean\_absolute\_error: 2.45382584/4840 [===============>..............] - ETA: 1s - loss: 10.4192 - mean\_absolute\_error: 2.45272643/4840 [===============>..............] - ETA: 1s - loss: 10.4289 - mean\_absolute\_error: 2.45412702/4840 [===============>..............] - ETA: 1s - loss: 10.4539 - mean\_absolute\_error: 2.45712761/4840 [================>.............] - ETA: 1s - loss: 10.4613 - mean\_absolute\_error: 2.45782819/4840 [================>.............] - ETA: 1s - loss: 10.4549 - mean\_absolute\_error: 2.45652877/4840 [================>.............] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45652936/4840 [=================>............] - ETA: 1s - loss: 10.4700 - mean\_absolute\_error: 2.45792996/4840 [=================>............] - ETA: 1s - loss: 10.4813 - mean\_absolute\_error: 2.45953057/4840 [=================>............] - ETA: 1s - loss: 10.4772 - mean\_absolute\_error: 2.45923116/4840 [==================>...........] - ETA: 1s - loss: 10.4754 - mean\_absolute\_error: 2.45883175/4840 [==================>...........] - ETA: 1s - loss: 10.4826 - mean\_absolute\_error: 2.45993235/4840 [===================>..........] - ETA: 1s - loss: 10.4751 - mean\_absolute\_error: 2.45903294/4840 [===================>..........] - ETA: 1s - loss: 10.4740 - mean\_absolute\_error: 2.45943353/4840 [===================>..........] - ETA: 1s - loss: 10.4790 - mean\_absolute\_error: 2.45943412/4840 [====================>.........] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45943470/4840 [====================>.........] - ETA: 1s - loss: 10.4808 - mean\_absolute\_error: 2.45923529/4840 [====================>.........] - ETA: 1s - loss: 10.4835 - mean\_absolute\_error: 2.45953588/4840 [=====================>........] - ETA: 1s - loss: 10.4762 - mean\_absolute\_error: 2.45823648/4840 [=====================>........] - ETA: 1s - loss: 10.4766 - mean\_absolute\_error: 2.45853708/4840 [=====================>........] - ETA: 0s - loss: 10.4860 - mean\_absolute\_error: 2.45973765/4840 [======================>.......] - ETA: 0s - loss: 10.4875 - mean\_absolute\_error: 2.45983824/4840 [======================>.......] - ETA: 0s - loss: 10.4852 - mean\_absolute\_error: 2.45933883/4840 [=======================>......] - ETA: 0s - loss: 10.4852 - mean\_absolute\_error: 2.45933943/4840 [=======================>......] - ETA: 0s - loss: 10.4840 - mean\_absolute\_error: 2.45894001/4840 [=======================>......] - ETA: 0s - loss: 10.4808 - mean\_absolute\_error: 2.45864059/4840 [========================>.....] - ETA: 0s - loss: 10.4843 - mean\_absolute\_error: 2.45884118/4840 [========================>.....] - ETA: 0s - loss: 10.4893 - mean\_absolute\_error: 2.45934178/4840 [========================>.....] - ETA: 0s - loss: 10.4905 - mean\_absolute\_error: 2.45914237/4840 [=========================>....] - ETA: 0s - loss: 10.4910 - mean\_absolute\_error: 2.45924297/4840 [=========================>....] - ETA: 0s - loss: 10.4924 - mean\_absolute\_error: 2.45934356/4840 [==========================>...] - ETA: 0s - loss: 10.4970 - mean\_absolute\_error: 2.45984414/4840 [==========================>...] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46114474/4840 [==========================>...] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46064533/4840 [===========================>..] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46004593/4840 [===========================>..] - ETA: 0s - loss: 10.4927 - mean\_absolute\_error: 2.45954653/4840 [===========================>..] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46034713/4840 [============================>.] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46044772/4840 [============================>.] - ETA: 0s - loss: 10.5051 - mean\_absolute\_error: 2.46094830/4840 [============================>.] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46064840/4840 [==============================] - 4s 905us/step - loss: 10.5028 - mean\_absolute\_error: 2.4608 - val\_loss: 11.4912 - val\_mean\_absolute\_error: 2.5812  
Epoch 59/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.0608 - mean\_absolute\_error: 2.5523 58/4840 [..............................] - ETA: 4s - loss: 10.7626 - mean\_absolute\_error: 2.4731 115/4840 [..............................] - ETA: 4s - loss: 10.6374 - mean\_absolute\_error: 2.4684 173/4840 [>.............................] - ETA: 4s - loss: 10.5665 - mean\_absolute\_error: 2.4586 232/4840 [>.............................] - ETA: 3s - loss: 10.4427 - mean\_absolute\_error: 2.4409 292/4840 [>.............................] - ETA: 3s - loss: 10.4742 - mean\_absolute\_error: 2.4531 352/4840 [=>............................] - ETA: 3s - loss: 10.4237 - mean\_absolute\_error: 2.4484 411/4840 [=>............................] - ETA: 3s - loss: 10.4754 - mean\_absolute\_error: 2.4524 467/4840 [=>............................] - ETA: 3s - loss: 10.4858 - mean\_absolute\_error: 2.4545 523/4840 [==>...........................] - ETA: 3s - loss: 10.4759 - mean\_absolute\_error: 2.4545 581/4840 [==>...........................] - ETA: 3s - loss: 10.4611 - mean\_absolute\_error: 2.4534 639/4840 [==>...........................] - ETA: 3s - loss: 10.4470 - mean\_absolute\_error: 2.4523 699/4840 [===>..........................] - ETA: 3s - loss: 10.4735 - mean\_absolute\_error: 2.4559 758/4840 [===>..........................] - ETA: 3s - loss: 10.4973 - mean\_absolute\_error: 2.4583 817/4840 [====>.........................] - ETA: 3s - loss: 10.4720 - mean\_absolute\_error: 2.4575 876/4840 [====>.........................] - ETA: 3s - loss: 10.4901 - mean\_absolute\_error: 2.4608 935/4840 [====>.........................] - ETA: 3s - loss: 10.4998 - mean\_absolute\_error: 2.4637 994/4840 [=====>........................] - ETA: 3s - loss: 10.4919 - mean\_absolute\_error: 2.46231052/4840 [=====>........................] - ETA: 3s - loss: 10.5139 - mean\_absolute\_error: 2.46641111/4840 [=====>........................] - ETA: 3s - loss: 10.5035 - mean\_absolute\_error: 2.46621170/4840 [======>.......................] - ETA: 3s - loss: 10.5293 - mean\_absolute\_error: 2.47031227/4840 [======>.......................] - ETA: 3s - loss: 10.5168 - mean\_absolute\_error: 2.46981287/4840 [======>.......................] - ETA: 3s - loss: 10.5472 - mean\_absolute\_error: 2.47281344/4840 [=======>......................] - ETA: 3s - loss: 10.5619 - mean\_absolute\_error: 2.47461404/4840 [=======>......................] - ETA: 2s - loss: 10.5532 - mean\_absolute\_error: 2.47431462/4840 [========>.....................] - ETA: 2s - loss: 10.5472 - mean\_absolute\_error: 2.47401522/4840 [========>.....................] - ETA: 2s - loss: 10.5253 - mean\_absolute\_error: 2.47161581/4840 [========>.....................] - ETA: 2s - loss: 10.5083 - mean\_absolute\_error: 2.46861640/4840 [=========>....................] - ETA: 2s - loss: 10.5121 - mean\_absolute\_error: 2.46921700/4840 [=========>....................] - ETA: 2s - loss: 10.5123 - mean\_absolute\_error: 2.46901759/4840 [=========>....................] - ETA: 2s - loss: 10.5040 - mean\_absolute\_error: 2.46781818/4840 [==========>...................] - ETA: 2s - loss: 10.5068 - mean\_absolute\_error: 2.46881878/4840 [==========>...................] - ETA: 2s - loss: 10.5059 - mean\_absolute\_error: 2.46861936/4840 [===========>..................] - ETA: 2s - loss: 10.5034 - mean\_absolute\_error: 2.46781994/4840 [===========>..................] - ETA: 2s - loss: 10.5179 - mean\_absolute\_error: 2.46972052/4840 [===========>..................] - ETA: 2s - loss: 10.5220 - mean\_absolute\_error: 2.47042110/4840 [============>.................] - ETA: 2s - loss: 10.5341 - mean\_absolute\_error: 2.47172168/4840 [============>.................] - ETA: 2s - loss: 10.5256 - mean\_absolute\_error: 2.47022226/4840 [============>.................] - ETA: 2s - loss: 10.5212 - mean\_absolute\_error: 2.46892285/4840 [=============>................] - ETA: 2s - loss: 10.5194 - mean\_absolute\_error: 2.46792344/4840 [=============>................] - ETA: 2s - loss: 10.5284 - mean\_absolute\_error: 2.46862400/4840 [=============>................] - ETA: 2s - loss: 10.5275 - mean\_absolute\_error: 2.46802457/4840 [==============>...............] - ETA: 2s - loss: 10.5339 - mean\_absolute\_error: 2.46792517/4840 [==============>...............] - ETA: 1s - loss: 10.5307 - mean\_absolute\_error: 2.46742577/4840 [==============>...............] - ETA: 1s - loss: 10.5210 - mean\_absolute\_error: 2.46612636/4840 [===============>..............] - ETA: 1s - loss: 10.5105 - mean\_absolute\_error: 2.46472695/4840 [===============>..............] - ETA: 1s - loss: 10.5068 - mean\_absolute\_error: 2.46362753/4840 [================>.............] - ETA: 1s - loss: 10.4994 - mean\_absolute\_error: 2.46272813/4840 [================>.............] - ETA: 1s - loss: 10.4953 - mean\_absolute\_error: 2.46192872/4840 [================>.............] - ETA: 1s - loss: 10.4949 - mean\_absolute\_error: 2.46242932/4840 [=================>............] - ETA: 1s - loss: 10.4923 - mean\_absolute\_error: 2.46162991/4840 [=================>............] - ETA: 1s - loss: 10.5005 - mean\_absolute\_error: 2.46243050/4840 [=================>............] - ETA: 1s - loss: 10.5059 - mean\_absolute\_error: 2.46303108/4840 [==================>...........] - ETA: 1s - loss: 10.5088 - mean\_absolute\_error: 2.46343166/4840 [==================>...........] - ETA: 1s - loss: 10.5175 - mean\_absolute\_error: 2.46463223/4840 [==================>...........] - ETA: 1s - loss: 10.5119 - mean\_absolute\_error: 2.46413280/4840 [===================>..........] - ETA: 1s - loss: 10.5228 - mean\_absolute\_error: 2.46563338/4840 [===================>..........] - ETA: 1s - loss: 10.5319 - mean\_absolute\_error: 2.46673397/4840 [====================>.........] - ETA: 1s - loss: 10.5335 - mean\_absolute\_error: 2.46713456/4840 [====================>.........] - ETA: 1s - loss: 10.5218 - mean\_absolute\_error: 2.46573515/4840 [====================>.........] - ETA: 1s - loss: 10.5155 - mean\_absolute\_error: 2.46543568/4840 [=====================>........] - ETA: 1s - loss: 10.5247 - mean\_absolute\_error: 2.46653622/4840 [=====================>........] - ETA: 1s - loss: 10.5304 - mean\_absolute\_error: 2.46723678/4840 [=====================>........] - ETA: 1s - loss: 10.5313 - mean\_absolute\_error: 2.46713736/4840 [======================>.......] - ETA: 0s - loss: 10.5288 - mean\_absolute\_error: 2.46663793/4840 [======================>.......] - ETA: 0s - loss: 10.5314 - mean\_absolute\_error: 2.46693852/4840 [======================>.......] - ETA: 0s - loss: 10.5280 - mean\_absolute\_error: 2.46653911/4840 [=======================>......] - ETA: 0s - loss: 10.5249 - mean\_absolute\_error: 2.46593972/4840 [=======================>......] - ETA: 0s - loss: 10.5193 - mean\_absolute\_error: 2.46534031/4840 [=======================>......] - ETA: 0s - loss: 10.5206 - mean\_absolute\_error: 2.46494089/4840 [========================>.....] - ETA: 0s - loss: 10.5150 - mean\_absolute\_error: 2.46404148/4840 [========================>.....] - ETA: 0s - loss: 10.5155 - mean\_absolute\_error: 2.46404207/4840 [=========================>....] - ETA: 0s - loss: 10.5137 - mean\_absolute\_error: 2.46374267/4840 [=========================>....] - ETA: 0s - loss: 10.5162 - mean\_absolute\_error: 2.46374326/4840 [=========================>....] - ETA: 0s - loss: 10.5116 - mean\_absolute\_error: 2.46344383/4840 [==========================>...] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46324441/4840 [==========================>...] - ETA: 0s - loss: 10.5178 - mean\_absolute\_error: 2.46404499/4840 [==========================>...] - ETA: 0s - loss: 10.5190 - mean\_absolute\_error: 2.46414558/4840 [===========================>..] - ETA: 0s - loss: 10.5155 - mean\_absolute\_error: 2.46374616/4840 [===========================>..] - ETA: 0s - loss: 10.5068 - mean\_absolute\_error: 2.46274675/4840 [===========================>..] - ETA: 0s - loss: 10.5095 - mean\_absolute\_error: 2.46314731/4840 [============================>.] - ETA: 0s - loss: 10.5094 - mean\_absolute\_error: 2.46314789/4840 [============================>.] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46264840/4840 [==============================] - 4s 904us/step - loss: 10.5028 - mean\_absolute\_error: 2.4625 - val\_loss: 11.4890 - val\_mean\_absolute\_error: 2.5805  
Epoch 60/100  
 1/4840 [..............................] - ETA: 4s - loss: 10.5187 - mean\_absolute\_error: 2.5624 60/4840 [..............................] - ETA: 4s - loss: 9.8241 - mean\_absolute\_error: 2.3607 118/4840 [..............................] - ETA: 4s - loss: 9.8855 - mean\_absolute\_error: 2.3755 178/4840 [>.............................] - ETA: 3s - loss: 10.0661 - mean\_absolute\_error: 2.4097 238/4840 [>.............................] - ETA: 3s - loss: 10.1487 - mean\_absolute\_error: 2.4230 297/4840 [>.............................] - ETA: 3s - loss: 10.2268 - mean\_absolute\_error: 2.4306 356/4840 [=>............................] - ETA: 3s - loss: 10.2621 - mean\_absolute\_error: 2.4342 416/4840 [=>............................] - ETA: 3s - loss: 10.3246 - mean\_absolute\_error: 2.4451 475/4840 [=>............................] - ETA: 3s - loss: 10.3329 - mean\_absolute\_error: 2.4460 536/4840 [==>...........................] - ETA: 3s - loss: 10.3739 - mean\_absolute\_error: 2.4484 596/4840 [==>...........................] - ETA: 3s - loss: 10.3655 - mean\_absolute\_error: 2.4457 655/4840 [===>..........................] - ETA: 3s - loss: 10.3630 - mean\_absolute\_error: 2.4455 714/4840 [===>..........................] - ETA: 3s - loss: 10.4245 - mean\_absolute\_error: 2.4546 773/4840 [===>..........................] - ETA: 3s - loss: 10.3764 - mean\_absolute\_error: 2.4484 830/4840 [====>.........................] - ETA: 3s - loss: 10.4143 - mean\_absolute\_error: 2.4518 889/4840 [====>.........................] - ETA: 3s - loss: 10.4516 - mean\_absolute\_error: 2.4573 948/4840 [====>.........................] - ETA: 3s - loss: 10.4219 - mean\_absolute\_error: 2.45301009/4840 [=====>........................] - ETA: 3s - loss: 10.4220 - mean\_absolute\_error: 2.45231069/4840 [=====>........................] - ETA: 3s - loss: 10.4114 - mean\_absolute\_error: 2.45121127/4840 [=====>........................] - ETA: 3s - loss: 10.4073 - mean\_absolute\_error: 2.45071184/4840 [======>.......................] - ETA: 3s - loss: 10.4196 - mean\_absolute\_error: 2.45311241/4840 [======>.......................] - ETA: 3s - loss: 10.4217 - mean\_absolute\_error: 2.45321300/4840 [=======>......................] - ETA: 3s - loss: 10.4267 - mean\_absolute\_error: 2.45271359/4840 [=======>......................] - ETA: 2s - loss: 10.4250 - mean\_absolute\_error: 2.45141419/4840 [=======>......................] - ETA: 2s - loss: 10.4118 - mean\_absolute\_error: 2.45011479/4840 [========>.....................] - ETA: 2s - loss: 10.4324 - mean\_absolute\_error: 2.45291538/4840 [========>.....................] - ETA: 2s - loss: 10.4336 - mean\_absolute\_error: 2.45241598/4840 [========>.....................] - ETA: 2s - loss: 10.4156 - mean\_absolute\_error: 2.45071655/4840 [=========>....................] - ETA: 2s - loss: 10.4077 - mean\_absolute\_error: 2.45001712/4840 [=========>....................] - ETA: 2s - loss: 10.3904 - mean\_absolute\_error: 2.44691771/4840 [=========>....................] - ETA: 2s - loss: 10.3873 - mean\_absolute\_error: 2.44711828/4840 [==========>...................] - ETA: 2s - loss: 10.4229 - mean\_absolute\_error: 2.45191887/4840 [==========>...................] - ETA: 2s - loss: 10.4135 - mean\_absolute\_error: 2.45111944/4840 [===========>..................] - ETA: 2s - loss: 10.4102 - mean\_absolute\_error: 2.45032003/4840 [===========>..................] - ETA: 2s - loss: 10.4138 - mean\_absolute\_error: 2.45172063/4840 [===========>..................] - ETA: 2s - loss: 10.4295 - mean\_absolute\_error: 2.45332121/4840 [============>.................] - ETA: 2s - loss: 10.4320 - mean\_absolute\_error: 2.45352181/4840 [============>.................] - ETA: 2s - loss: 10.4513 - mean\_absolute\_error: 2.45552241/4840 [============>.................] - ETA: 2s - loss: 10.4543 - mean\_absolute\_error: 2.45642301/4840 [=============>................] - ETA: 2s - loss: 10.4493 - mean\_absolute\_error: 2.45562359/4840 [=============>................] - ETA: 2s - loss: 10.4448 - mean\_absolute\_error: 2.45442419/4840 [=============>................] - ETA: 2s - loss: 10.4486 - mean\_absolute\_error: 2.45462479/4840 [==============>...............] - ETA: 2s - loss: 10.4594 - mean\_absolute\_error: 2.45502539/4840 [==============>...............] - ETA: 1s - loss: 10.4656 - mean\_absolute\_error: 2.45612595/4840 [===============>..............] - ETA: 1s - loss: 10.4627 - mean\_absolute\_error: 2.45482645/4840 [===============>..............] - ETA: 1s - loss: 10.4653 - mean\_absolute\_error: 2.45582703/4840 [===============>..............] - ETA: 1s - loss: 10.4552 - mean\_absolute\_error: 2.45472760/4840 [================>.............] - ETA: 1s - loss: 10.4522 - mean\_absolute\_error: 2.45452817/4840 [================>.............] - ETA: 1s - loss: 10.4586 - mean\_absolute\_error: 2.45542875/4840 [================>.............] - ETA: 1s - loss: 10.4562 - mean\_absolute\_error: 2.45552933/4840 [=================>............] - ETA: 1s - loss: 10.4599 - mean\_absolute\_error: 2.45632991/4840 [=================>............] - ETA: 1s - loss: 10.4647 - mean\_absolute\_error: 2.45733051/4840 [=================>............] - ETA: 1s - loss: 10.4870 - mean\_absolute\_error: 2.45953106/4840 [==================>...........] - ETA: 1s - loss: 10.5108 - mean\_absolute\_error: 2.46223164/4840 [==================>...........] - ETA: 1s - loss: 10.4998 - mean\_absolute\_error: 2.46123221/4840 [==================>...........] - ETA: 1s - loss: 10.4961 - mean\_absolute\_error: 2.46083280/4840 [===================>..........] - ETA: 1s - loss: 10.4879 - mean\_absolute\_error: 2.45993339/4840 [===================>..........] - ETA: 1s - loss: 10.4906 - mean\_absolute\_error: 2.46043399/4840 [====================>.........] - ETA: 1s - loss: 10.4894 - mean\_absolute\_error: 2.46023457/4840 [====================>.........] - ETA: 1s - loss: 10.4830 - mean\_absolute\_error: 2.45953517/4840 [====================>.........] - ETA: 1s - loss: 10.4824 - mean\_absolute\_error: 2.45903576/4840 [=====================>........] - ETA: 1s - loss: 10.4793 - mean\_absolute\_error: 2.45863635/4840 [=====================>........] - ETA: 1s - loss: 10.4746 - mean\_absolute\_error: 2.45793692/4840 [=====================>........] - ETA: 0s - loss: 10.4704 - mean\_absolute\_error: 2.45723751/4840 [======================>.......] - ETA: 0s - loss: 10.4706 - mean\_absolute\_error: 2.45713810/4840 [======================>.......] - ETA: 0s - loss: 10.4681 - mean\_absolute\_error: 2.45713869/4840 [======================>.......] - ETA: 0s - loss: 10.4738 - mean\_absolute\_error: 2.45803926/4840 [=======================>......] - ETA: 0s - loss: 10.4784 - mean\_absolute\_error: 2.45843983/4840 [=======================>......] - ETA: 0s - loss: 10.4824 - mean\_absolute\_error: 2.45894041/4840 [========================>.....] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45964100/4840 [========================>.....] - ETA: 0s - loss: 10.4801 - mean\_absolute\_error: 2.45884159/4840 [========================>.....] - ETA: 0s - loss: 10.4773 - mean\_absolute\_error: 2.45854219/4840 [=========================>....] - ETA: 0s - loss: 10.4762 - mean\_absolute\_error: 2.45844275/4840 [=========================>....] - ETA: 0s - loss: 10.4797 - mean\_absolute\_error: 2.45884334/4840 [=========================>....] - ETA: 0s - loss: 10.4889 - mean\_absolute\_error: 2.46004392/4840 [==========================>...] - ETA: 0s - loss: 10.4835 - mean\_absolute\_error: 2.45944452/4840 [==========================>...] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46124511/4840 [==========================>...] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46194571/4840 [===========================>..] - ETA: 0s - loss: 10.5052 - mean\_absolute\_error: 2.46234632/4840 [===========================>..] - ETA: 0s - loss: 10.5053 - mean\_absolute\_error: 2.46214692/4840 [============================>.] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46194752/4840 [============================>.] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46144812/4840 [============================>.] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 904us/step - loss: 10.5035 - mean\_absolute\_error: 2.4618 - val\_loss: 11.4893 - val\_mean\_absolute\_error: 2.5802  
Epoch 61/100  
 1/4840 [..............................] - ETA: 4s - loss: 10.0647 - mean\_absolute\_error: 2.4545 60/4840 [..............................] - ETA: 4s - loss: 10.1102 - mean\_absolute\_error: 2.3960 120/4840 [..............................] - ETA: 3s - loss: 10.5219 - mean\_absolute\_error: 2.4571 180/4840 [>.............................] - ETA: 3s - loss: 10.5326 - mean\_absolute\_error: 2.4642 238/4840 [>.............................] - ETA: 3s - loss: 10.5158 - mean\_absolute\_error: 2.4593 299/4840 [>.............................] - ETA: 3s - loss: 10.5305 - mean\_absolute\_error: 2.4664 356/4840 [=>............................] - ETA: 3s - loss: 10.5955 - mean\_absolute\_error: 2.4721 416/4840 [=>............................] - ETA: 3s - loss: 10.6081 - mean\_absolute\_error: 2.4710 476/4840 [=>............................] - ETA: 3s - loss: 10.5324 - mean\_absolute\_error: 2.4615 537/4840 [==>...........................] - ETA: 3s - loss: 10.5384 - mean\_absolute\_error: 2.4618 597/4840 [==>...........................] - ETA: 3s - loss: 10.6123 - mean\_absolute\_error: 2.4740 656/4840 [===>..........................] - ETA: 3s - loss: 10.5841 - mean\_absolute\_error: 2.4716 716/4840 [===>..........................] - ETA: 3s - loss: 10.5408 - mean\_absolute\_error: 2.4670 777/4840 [===>..........................] - ETA: 3s - loss: 10.5449 - mean\_absolute\_error: 2.4679 837/4840 [====>.........................] - ETA: 3s - loss: 10.5086 - mean\_absolute\_error: 2.4636 898/4840 [====>.........................] - ETA: 3s - loss: 10.5083 - mean\_absolute\_error: 2.4642 957/4840 [====>.........................] - ETA: 3s - loss: 10.4966 - mean\_absolute\_error: 2.46331017/4840 [=====>........................] - ETA: 3s - loss: 10.5139 - mean\_absolute\_error: 2.46521073/4840 [=====>........................] - ETA: 3s - loss: 10.5267 - mean\_absolute\_error: 2.46621118/4840 [=====>........................] - ETA: 3s - loss: 10.4838 - mean\_absolute\_error: 2.46041164/4840 [======>.......................] - ETA: 3s - loss: 10.4628 - mean\_absolute\_error: 2.45801214/4840 [======>.......................] - ETA: 3s - loss: 10.4607 - mean\_absolute\_error: 2.45751265/4840 [======>.......................] - ETA: 3s - loss: 10.4715 - mean\_absolute\_error: 2.45961320/4840 [=======>......................] - ETA: 3s - loss: 10.4737 - mean\_absolute\_error: 2.45991376/4840 [=======>......................] - ETA: 3s - loss: 10.4684 - mean\_absolute\_error: 2.45941434/4840 [=======>......................] - ETA: 2s - loss: 10.4878 - mean\_absolute\_error: 2.46171490/4840 [========>.....................] - ETA: 2s - loss: 10.5105 - mean\_absolute\_error: 2.46521549/4840 [========>.....................] - ETA: 2s - loss: 10.5170 - mean\_absolute\_error: 2.46551607/4840 [========>.....................] - ETA: 2s - loss: 10.4960 - mean\_absolute\_error: 2.46351666/4840 [=========>....................] - ETA: 2s - loss: 10.4845 - mean\_absolute\_error: 2.46151725/4840 [=========>....................] - ETA: 2s - loss: 10.4746 - mean\_absolute\_error: 2.45911785/4840 [==========>...................] - ETA: 2s - loss: 10.4761 - mean\_absolute\_error: 2.45911845/4840 [==========>...................] - ETA: 2s - loss: 10.4595 - mean\_absolute\_error: 2.45761905/4840 [==========>...................] - ETA: 2s - loss: 10.4669 - mean\_absolute\_error: 2.45871964/4840 [===========>..................] - ETA: 2s - loss: 10.4621 - mean\_absolute\_error: 2.45842024/4840 [===========>..................] - ETA: 2s - loss: 10.4457 - mean\_absolute\_error: 2.45662084/4840 [===========>..................] - ETA: 2s - loss: 10.4317 - mean\_absolute\_error: 2.45542140/4840 [============>.................] - ETA: 2s - loss: 10.4461 - mean\_absolute\_error: 2.45702198/4840 [============>.................] - ETA: 2s - loss: 10.4599 - mean\_absolute\_error: 2.45952257/4840 [============>.................] - ETA: 2s - loss: 10.4624 - mean\_absolute\_error: 2.45952315/4840 [=============>................] - ETA: 2s - loss: 10.4527 - mean\_absolute\_error: 2.45842374/4840 [=============>................] - ETA: 2s - loss: 10.4491 - mean\_absolute\_error: 2.45772434/4840 [==============>...............] - ETA: 2s - loss: 10.4551 - mean\_absolute\_error: 2.45892493/4840 [==============>...............] - ETA: 2s - loss: 10.4634 - mean\_absolute\_error: 2.46002553/4840 [==============>...............] - ETA: 1s - loss: 10.4574 - mean\_absolute\_error: 2.45872613/4840 [===============>..............] - ETA: 1s - loss: 10.4553 - mean\_absolute\_error: 2.45812670/4840 [===============>..............] - ETA: 1s - loss: 10.4484 - mean\_absolute\_error: 2.45692727/4840 [===============>..............] - ETA: 1s - loss: 10.4614 - mean\_absolute\_error: 2.45842786/4840 [================>.............] - ETA: 1s - loss: 10.4596 - mean\_absolute\_error: 2.45772839/4840 [================>.............] - ETA: 1s - loss: 10.4646 - mean\_absolute\_error: 2.45832893/4840 [================>.............] - ETA: 1s - loss: 10.4672 - mean\_absolute\_error: 2.45892951/4840 [=================>............] - ETA: 1s - loss: 10.4722 - mean\_absolute\_error: 2.45953009/4840 [=================>............] - ETA: 1s - loss: 10.4745 - mean\_absolute\_error: 2.45963069/4840 [==================>...........] - ETA: 1s - loss: 10.4744 - mean\_absolute\_error: 2.45953128/4840 [==================>...........] - ETA: 1s - loss: 10.4837 - mean\_absolute\_error: 2.46083189/4840 [==================>...........] - ETA: 1s - loss: 10.4726 - mean\_absolute\_error: 2.45943249/4840 [===================>..........] - ETA: 1s - loss: 10.4713 - mean\_absolute\_error: 2.45923307/4840 [===================>..........] - ETA: 1s - loss: 10.4712 - mean\_absolute\_error: 2.45923367/4840 [===================>..........] - ETA: 1s - loss: 10.4629 - mean\_absolute\_error: 2.45823426/4840 [====================>.........] - ETA: 1s - loss: 10.4574 - mean\_absolute\_error: 2.45763484/4840 [====================>.........] - ETA: 1s - loss: 10.4587 - mean\_absolute\_error: 2.45733543/4840 [====================>.........] - ETA: 1s - loss: 10.4508 - mean\_absolute\_error: 2.45603601/4840 [=====================>........] - ETA: 1s - loss: 10.4511 - mean\_absolute\_error: 2.45603661/4840 [=====================>........] - ETA: 1s - loss: 10.4588 - mean\_absolute\_error: 2.45693719/4840 [======================>.......] - ETA: 0s - loss: 10.4508 - mean\_absolute\_error: 2.45593776/4840 [======================>.......] - ETA: 0s - loss: 10.4538 - mean\_absolute\_error: 2.45663834/4840 [======================>.......] - ETA: 0s - loss: 10.4602 - mean\_absolute\_error: 2.45703893/4840 [=======================>......] - ETA: 0s - loss: 10.4613 - mean\_absolute\_error: 2.45723952/4840 [=======================>......] - ETA: 0s - loss: 10.4672 - mean\_absolute\_error: 2.45794011/4840 [=======================>......] - ETA: 0s - loss: 10.4726 - mean\_absolute\_error: 2.45864071/4840 [========================>.....] - ETA: 0s - loss: 10.4808 - mean\_absolute\_error: 2.45984132/4840 [========================>.....] - ETA: 0s - loss: 10.4828 - mean\_absolute\_error: 2.45954192/4840 [========================>.....] - ETA: 0s - loss: 10.4848 - mean\_absolute\_error: 2.45964253/4840 [=========================>....] - ETA: 0s - loss: 10.4876 - mean\_absolute\_error: 2.45984314/4840 [=========================>....] - ETA: 0s - loss: 10.4894 - mean\_absolute\_error: 2.46024375/4840 [==========================>...] - ETA: 0s - loss: 10.4862 - mean\_absolute\_error: 2.45944436/4840 [==========================>...] - ETA: 0s - loss: 10.4917 - mean\_absolute\_error: 2.46014493/4840 [==========================>...] - ETA: 0s - loss: 10.5005 - mean\_absolute\_error: 2.46134552/4840 [===========================>..] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46134613/4840 [===========================>..] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46154672/4840 [===========================>..] - ETA: 0s - loss: 10.4972 - mean\_absolute\_error: 2.46104732/4840 [============================>.] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46134789/4840 [============================>.] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 912us/step - loss: 10.5032 - mean\_absolute\_error: 2.4616 - val\_loss: 11.4921 - val\_mean\_absolute\_error: 2.5802  
Epoch 62/100  
 1/4840 [..............................] - ETA: 4s - loss: 13.5347 - mean\_absolute\_error: 3.0708 61/4840 [..............................] - ETA: 4s - loss: 9.9247 - mean\_absolute\_error: 2.3959 122/4840 [..............................] - ETA: 3s - loss: 10.0604 - mean\_absolute\_error: 2.4087 183/4840 [>.............................] - ETA: 3s - loss: 10.1229 - mean\_absolute\_error: 2.4131 243/4840 [>.............................] - ETA: 3s - loss: 10.1453 - mean\_absolute\_error: 2.4118 302/4840 [>.............................] - ETA: 3s - loss: 10.2142 - mean\_absolute\_error: 2.4197 362/4840 [=>............................] - ETA: 3s - loss: 10.2267 - mean\_absolute\_error: 2.4209 422/4840 [=>............................] - ETA: 3s - loss: 10.2546 - mean\_absolute\_error: 2.4239 482/4840 [=>............................] - ETA: 3s - loss: 10.2598 - mean\_absolute\_error: 2.4280 542/4840 [==>...........................] - ETA: 3s - loss: 10.2746 - mean\_absolute\_error: 2.4288 600/4840 [==>...........................] - ETA: 3s - loss: 10.2962 - mean\_absolute\_error: 2.4326 659/4840 [===>..........................] - ETA: 3s - loss: 10.3257 - mean\_absolute\_error: 2.4383 718/4840 [===>..........................] - ETA: 3s - loss: 10.3250 - mean\_absolute\_error: 2.4381 776/4840 [===>..........................] - ETA: 3s - loss: 10.3737 - mean\_absolute\_error: 2.4429 835/4840 [====>.........................] - ETA: 3s - loss: 10.4286 - mean\_absolute\_error: 2.4499 895/4840 [====>.........................] - ETA: 3s - loss: 10.4736 - mean\_absolute\_error: 2.4551 955/4840 [====>.........................] - ETA: 3s - loss: 10.4791 - mean\_absolute\_error: 2.45691016/4840 [=====>........................] - ETA: 3s - loss: 10.4562 - mean\_absolute\_error: 2.45491072/4840 [=====>........................] - ETA: 3s - loss: 10.4560 - mean\_absolute\_error: 2.45651130/4840 [======>.......................] - ETA: 3s - loss: 10.4317 - mean\_absolute\_error: 2.45421187/4840 [======>.......................] - ETA: 3s - loss: 10.4583 - mean\_absolute\_error: 2.45821247/4840 [======>.......................] - ETA: 3s - loss: 10.4581 - mean\_absolute\_error: 2.45701307/4840 [=======>......................] - ETA: 3s - loss: 10.4894 - mean\_absolute\_error: 2.46001367/4840 [=======>......................] - ETA: 2s - loss: 10.4864 - mean\_absolute\_error: 2.45991427/4840 [=======>......................] - ETA: 2s - loss: 10.4876 - mean\_absolute\_error: 2.46091487/4840 [========>.....................] - ETA: 2s - loss: 10.4911 - mean\_absolute\_error: 2.46211544/4840 [========>.....................] - ETA: 2s - loss: 10.4855 - mean\_absolute\_error: 2.46041604/4840 [========>.....................] - ETA: 2s - loss: 10.4627 - mean\_absolute\_error: 2.45721664/4840 [=========>....................] - ETA: 2s - loss: 10.4615 - mean\_absolute\_error: 2.45711725/4840 [=========>....................] - ETA: 2s - loss: 10.4568 - mean\_absolute\_error: 2.45601785/4840 [==========>...................] - ETA: 2s - loss: 10.4457 - mean\_absolute\_error: 2.45461844/4840 [==========>...................] - ETA: 2s - loss: 10.4261 - mean\_absolute\_error: 2.45191904/4840 [==========>...................] - ETA: 2s - loss: 10.4118 - mean\_absolute\_error: 2.44951964/4840 [===========>..................] - ETA: 2s - loss: 10.4198 - mean\_absolute\_error: 2.45122024/4840 [===========>..................] - ETA: 2s - loss: 10.4173 - mean\_absolute\_error: 2.45162083/4840 [===========>..................] - ETA: 2s - loss: 10.4089 - mean\_absolute\_error: 2.45052143/4840 [============>.................] - ETA: 2s - loss: 10.4186 - mean\_absolute\_error: 2.45202201/4840 [============>.................] - ETA: 2s - loss: 10.4314 - mean\_absolute\_error: 2.45332257/4840 [============>.................] - ETA: 2s - loss: 10.4426 - mean\_absolute\_error: 2.45552315/4840 [=============>................] - ETA: 2s - loss: 10.4328 - mean\_absolute\_error: 2.45402374/4840 [=============>................] - ETA: 2s - loss: 10.4341 - mean\_absolute\_error: 2.45392436/4840 [==============>...............] - ETA: 2s - loss: 10.4347 - mean\_absolute\_error: 2.45352496/4840 [==============>...............] - ETA: 1s - loss: 10.4270 - mean\_absolute\_error: 2.45192556/4840 [==============>...............] - ETA: 1s - loss: 10.4303 - mean\_absolute\_error: 2.45272616/4840 [===============>..............] - ETA: 1s - loss: 10.4294 - mean\_absolute\_error: 2.45262677/4840 [===============>..............] - ETA: 1s - loss: 10.4271 - mean\_absolute\_error: 2.45212737/4840 [===============>..............] - ETA: 1s - loss: 10.4152 - mean\_absolute\_error: 2.45082797/4840 [================>.............] - ETA: 1s - loss: 10.4217 - mean\_absolute\_error: 2.45092857/4840 [================>.............] - ETA: 1s - loss: 10.4269 - mean\_absolute\_error: 2.45092918/4840 [=================>............] - ETA: 1s - loss: 10.4381 - mean\_absolute\_error: 2.45192977/4840 [=================>............] - ETA: 1s - loss: 10.4504 - mean\_absolute\_error: 2.45363036/4840 [=================>............] - ETA: 1s - loss: 10.4620 - mean\_absolute\_error: 2.45483094/4840 [==================>...........] - ETA: 1s - loss: 10.4729 - mean\_absolute\_error: 2.45663154/4840 [==================>...........] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45763213/4840 [==================>...........] - ETA: 1s - loss: 10.4832 - mean\_absolute\_error: 2.45793274/4840 [===================>..........] - ETA: 1s - loss: 10.4847 - mean\_absolute\_error: 2.45813334/4840 [===================>..........] - ETA: 1s - loss: 10.4842 - mean\_absolute\_error: 2.45813391/4840 [====================>.........] - ETA: 1s - loss: 10.4882 - mean\_absolute\_error: 2.45893449/4840 [====================>.........] - ETA: 1s - loss: 10.4850 - mean\_absolute\_error: 2.45883508/4840 [====================>.........] - ETA: 1s - loss: 10.4854 - mean\_absolute\_error: 2.45923567/4840 [=====================>........] - ETA: 1s - loss: 10.4789 - mean\_absolute\_error: 2.45843628/4840 [=====================>........] - ETA: 1s - loss: 10.4749 - mean\_absolute\_error: 2.45823688/4840 [=====================>........] - ETA: 0s - loss: 10.4782 - mean\_absolute\_error: 2.45833748/4840 [======================>.......] - ETA: 0s - loss: 10.4723 - mean\_absolute\_error: 2.45763807/4840 [======================>.......] - ETA: 0s - loss: 10.4771 - mean\_absolute\_error: 2.45853867/4840 [======================>.......] - ETA: 0s - loss: 10.4662 - mean\_absolute\_error: 2.45753927/4840 [=======================>......] - ETA: 0s - loss: 10.4745 - mean\_absolute\_error: 2.45833988/4840 [=======================>......] - ETA: 0s - loss: 10.4695 - mean\_absolute\_error: 2.45784048/4840 [========================>.....] - ETA: 0s - loss: 10.4763 - mean\_absolute\_error: 2.45904108/4840 [========================>.....] - ETA: 0s - loss: 10.4831 - mean\_absolute\_error: 2.45994167/4840 [========================>.....] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.46034227/4840 [=========================>....] - ETA: 0s - loss: 10.4832 - mean\_absolute\_error: 2.45954285/4840 [=========================>....] - ETA: 0s - loss: 10.4934 - mean\_absolute\_error: 2.46064343/4840 [=========================>....] - ETA: 0s - loss: 10.4950 - mean\_absolute\_error: 2.46104402/4840 [==========================>...] - ETA: 0s - loss: 10.4998 - mean\_absolute\_error: 2.46134462/4840 [==========================>...] - ETA: 0s - loss: 10.5032 - mean\_absolute\_error: 2.46204522/4840 [===========================>..] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46144579/4840 [===========================>..] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46134637/4840 [===========================>..] - ETA: 0s - loss: 10.4950 - mean\_absolute\_error: 2.46044696/4840 [============================>.] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46084755/4840 [============================>.] - ETA: 0s - loss: 10.5066 - mean\_absolute\_error: 2.46204815/4840 [============================>.] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46104840/4840 [==============================] - 4s 891us/step - loss: 10.5029 - mean\_absolute\_error: 2.4614 - val\_loss: 11.4933 - val\_mean\_absolute\_error: 2.5807  
Epoch 63/100  
 1/4840 [..............................] - ETA: 4s - loss: 11.4515 - mean\_absolute\_error: 2.4342 60/4840 [..............................] - ETA: 4s - loss: 10.7888 - mean\_absolute\_error: 2.5041 121/4840 [..............................] - ETA: 3s - loss: 10.8225 - mean\_absolute\_error: 2.5180 181/4840 [>.............................] - ETA: 3s - loss: 10.8451 - mean\_absolute\_error: 2.5165 241/4840 [>.............................] - ETA: 3s - loss: 10.8763 - mean\_absolute\_error: 2.5225 300/4840 [>.............................] - ETA: 3s - loss: 10.7890 - mean\_absolute\_error: 2.5090 358/4840 [=>............................] - ETA: 3s - loss: 10.6845 - mean\_absolute\_error: 2.5012 419/4840 [=>............................] - ETA: 3s - loss: 10.6033 - mean\_absolute\_error: 2.4846 478/4840 [=>............................] - ETA: 3s - loss: 10.6593 - mean\_absolute\_error: 2.4950 537/4840 [==>...........................] - ETA: 3s - loss: 10.6322 - mean\_absolute\_error: 2.4909 595/4840 [==>...........................] - ETA: 3s - loss: 10.7091 - mean\_absolute\_error: 2.5016 644/4840 [==>...........................] - ETA: 3s - loss: 10.6491 - mean\_absolute\_error: 2.4952 701/4840 [===>..........................] - ETA: 3s - loss: 10.5907 - mean\_absolute\_error: 2.4858 760/4840 [===>..........................] - ETA: 3s - loss: 10.5304 - mean\_absolute\_error: 2.4757 819/4840 [====>.........................] - ETA: 3s - loss: 10.5505 - mean\_absolute\_error: 2.4785 879/4840 [====>.........................] - ETA: 3s - loss: 10.5217 - mean\_absolute\_error: 2.4740 940/4840 [====>.........................] - ETA: 3s - loss: 10.5245 - mean\_absolute\_error: 2.4739 998/4840 [=====>........................] - ETA: 3s - loss: 10.4814 - mean\_absolute\_error: 2.46711056/4840 [=====>........................] - ETA: 3s - loss: 10.4763 - mean\_absolute\_error: 2.46741118/4840 [=====>........................] - ETA: 3s - loss: 10.4925 - mean\_absolute\_error: 2.46821177/4840 [======>.......................] - ETA: 3s - loss: 10.4557 - mean\_absolute\_error: 2.46341239/4840 [======>.......................] - ETA: 3s - loss: 10.4738 - mean\_absolute\_error: 2.46451298/4840 [=======>......................] - ETA: 3s - loss: 10.4539 - mean\_absolute\_error: 2.46071360/4840 [=======>......................] - ETA: 2s - loss: 10.4751 - mean\_absolute\_error: 2.46341417/4840 [=======>......................] - ETA: 2s - loss: 10.4798 - mean\_absolute\_error: 2.46361473/4840 [========>.....................] - ETA: 2s - loss: 10.4816 - mean\_absolute\_error: 2.46381531/4840 [========>.....................] - ETA: 2s - loss: 10.4651 - mean\_absolute\_error: 2.46131591/4840 [========>.....................] - ETA: 2s - loss: 10.4600 - mean\_absolute\_error: 2.45931651/4840 [=========>....................] - ETA: 2s - loss: 10.4592 - mean\_absolute\_error: 2.45821709/4840 [=========>....................] - ETA: 2s - loss: 10.4552 - mean\_absolute\_error: 2.45771769/4840 [=========>....................] - ETA: 2s - loss: 10.4608 - mean\_absolute\_error: 2.45851825/4840 [==========>...................] - ETA: 2s - loss: 10.4541 - mean\_absolute\_error: 2.45801881/4840 [==========>...................] - ETA: 2s - loss: 10.4629 - mean\_absolute\_error: 2.45881937/4840 [===========>..................] - ETA: 2s - loss: 10.4580 - mean\_absolute\_error: 2.45791996/4840 [===========>..................] - ETA: 2s - loss: 10.4410 - mean\_absolute\_error: 2.45632055/4840 [===========>..................] - ETA: 2s - loss: 10.4397 - mean\_absolute\_error: 2.45582116/4840 [============>.................] - ETA: 2s - loss: 10.4409 - mean\_absolute\_error: 2.45622176/4840 [============>.................] - ETA: 2s - loss: 10.4429 - mean\_absolute\_error: 2.45552236/4840 [============>.................] - ETA: 2s - loss: 10.4481 - mean\_absolute\_error: 2.45652297/4840 [=============>................] - ETA: 2s - loss: 10.4494 - mean\_absolute\_error: 2.45642358/4840 [=============>................] - ETA: 2s - loss: 10.4622 - mean\_absolute\_error: 2.45842419/4840 [=============>................] - ETA: 2s - loss: 10.4633 - mean\_absolute\_error: 2.45842479/4840 [==============>...............] - ETA: 2s - loss: 10.4606 - mean\_absolute\_error: 2.45802541/4840 [==============>...............] - ETA: 1s - loss: 10.4641 - mean\_absolute\_error: 2.45832599/4840 [===============>..............] - ETA: 1s - loss: 10.4451 - mean\_absolute\_error: 2.45602657/4840 [===============>..............] - ETA: 1s - loss: 10.4555 - mean\_absolute\_error: 2.45692714/4840 [===============>..............] - ETA: 1s - loss: 10.4477 - mean\_absolute\_error: 2.45622770/4840 [================>.............] - ETA: 1s - loss: 10.4473 - mean\_absolute\_error: 2.45612825/4840 [================>.............] - ETA: 1s - loss: 10.4431 - mean\_absolute\_error: 2.45552884/4840 [================>.............] - ETA: 1s - loss: 10.4492 - mean\_absolute\_error: 2.45632943/4840 [=================>............] - ETA: 1s - loss: 10.4588 - mean\_absolute\_error: 2.45773001/4840 [=================>............] - ETA: 1s - loss: 10.4611 - mean\_absolute\_error: 2.45843060/4840 [=================>............] - ETA: 1s - loss: 10.4605 - mean\_absolute\_error: 2.45773119/4840 [==================>...........] - ETA: 1s - loss: 10.4584 - mean\_absolute\_error: 2.45683179/4840 [==================>...........] - ETA: 1s - loss: 10.4543 - mean\_absolute\_error: 2.45623239/4840 [===================>..........] - ETA: 1s - loss: 10.4620 - mean\_absolute\_error: 2.45703299/4840 [===================>..........] - ETA: 1s - loss: 10.4610 - mean\_absolute\_error: 2.45643358/4840 [===================>..........] - ETA: 1s - loss: 10.4616 - mean\_absolute\_error: 2.45633419/4840 [====================>.........] - ETA: 1s - loss: 10.4643 - mean\_absolute\_error: 2.45643478/4840 [====================>.........] - ETA: 1s - loss: 10.4624 - mean\_absolute\_error: 2.45593536/4840 [====================>.........] - ETA: 1s - loss: 10.4717 - mean\_absolute\_error: 2.45733596/4840 [=====================>........] - ETA: 1s - loss: 10.4674 - mean\_absolute\_error: 2.45693656/4840 [=====================>........] - ETA: 1s - loss: 10.4783 - mean\_absolute\_error: 2.45833716/4840 [======================>.......] - ETA: 0s - loss: 10.4730 - mean\_absolute\_error: 2.45733776/4840 [======================>.......] - ETA: 0s - loss: 10.4826 - mean\_absolute\_error: 2.45833835/4840 [======================>.......] - ETA: 0s - loss: 10.4857 - mean\_absolute\_error: 2.45843894/4840 [=======================>......] - ETA: 0s - loss: 10.4969 - mean\_absolute\_error: 2.45993954/4840 [=======================>......] - ETA: 0s - loss: 10.4956 - mean\_absolute\_error: 2.45994014/4840 [=======================>......] - ETA: 0s - loss: 10.4941 - mean\_absolute\_error: 2.46014074/4840 [========================>.....] - ETA: 0s - loss: 10.4987 - mean\_absolute\_error: 2.46034134/4840 [========================>.....] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46114192/4840 [========================>.....] - ETA: 0s - loss: 10.4996 - mean\_absolute\_error: 2.46094250/4840 [=========================>....] - ETA: 0s - loss: 10.4949 - mean\_absolute\_error: 2.45994309/4840 [=========================>....] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.46034369/4840 [==========================>...] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46084429/4840 [==========================>...] - ETA: 0s - loss: 10.5102 - mean\_absolute\_error: 2.46184487/4840 [==========================>...] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46054547/4840 [===========================>..] - ETA: 0s - loss: 10.4945 - mean\_absolute\_error: 2.45974607/4840 [===========================>..] - ETA: 0s - loss: 10.4959 - mean\_absolute\_error: 2.46034667/4840 [===========================>..] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46114727/4840 [============================>.] - ETA: 0s - loss: 10.5020 - mean\_absolute\_error: 2.46114787/4840 [============================>.] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46094840/4840 [==============================] - 4s 896us/step - loss: 10.5032 - mean\_absolute\_error: 2.4610 - val\_loss: 11.4953 - val\_mean\_absolute\_error: 2.5816  
Epoch 64/100  
 1/4840 [..............................] - ETA: 4s - loss: 18.2566 - mean\_absolute\_error: 3.2895 60/4840 [..............................] - ETA: 4s - loss: 11.2381 - mean\_absolute\_error: 2.5821 120/4840 [..............................] - ETA: 3s - loss: 11.1056 - mean\_absolute\_error: 2.5520 178/4840 [>.............................] - ETA: 3s - loss: 10.8461 - mean\_absolute\_error: 2.5081 240/4840 [>.............................] - ETA: 3s - loss: 10.6742 - mean\_absolute\_error: 2.4893 299/4840 [>.............................] - ETA: 3s - loss: 10.6986 - mean\_absolute\_error: 2.4950 360/4840 [=>............................] - ETA: 3s - loss: 10.6700 - mean\_absolute\_error: 2.4893 419/4840 [=>............................] - ETA: 3s - loss: 10.6240 - mean\_absolute\_error: 2.4809 477/4840 [=>............................] - ETA: 3s - loss: 10.5238 - mean\_absolute\_error: 2.4656 536/4840 [==>...........................] - ETA: 3s - loss: 10.5424 - mean\_absolute\_error: 2.4686 597/4840 [==>...........................] - ETA: 3s - loss: 10.5052 - mean\_absolute\_error: 2.4649 658/4840 [===>..........................] - ETA: 3s - loss: 10.4868 - mean\_absolute\_error: 2.4637 718/4840 [===>..........................] - ETA: 3s - loss: 10.5207 - mean\_absolute\_error: 2.4662 779/4840 [===>..........................] - ETA: 3s - loss: 10.4740 - mean\_absolute\_error: 2.4582 839/4840 [====>.........................] - ETA: 3s - loss: 10.4789 - mean\_absolute\_error: 2.4587 900/4840 [====>.........................] - ETA: 3s - loss: 10.4692 - mean\_absolute\_error: 2.4585 961/4840 [====>.........................] - ETA: 3s - loss: 10.4858 - mean\_absolute\_error: 2.46151021/4840 [=====>........................] - ETA: 3s - loss: 10.4751 - mean\_absolute\_error: 2.46021079/4840 [=====>........................] - ETA: 3s - loss: 10.4804 - mean\_absolute\_error: 2.45971136/4840 [======>.......................] - ETA: 3s - loss: 10.4987 - mean\_absolute\_error: 2.46221198/4840 [======>.......................] - ETA: 3s - loss: 10.5145 - mean\_absolute\_error: 2.46431258/4840 [======>.......................] - ETA: 3s - loss: 10.4904 - mean\_absolute\_error: 2.46141320/4840 [=======>......................] - ETA: 2s - loss: 10.4928 - mean\_absolute\_error: 2.46241381/4840 [=======>......................] - ETA: 2s - loss: 10.4959 - mean\_absolute\_error: 2.46281441/4840 [=======>......................] - ETA: 2s - loss: 10.5079 - mean\_absolute\_error: 2.46461499/4840 [========>.....................] - ETA: 2s - loss: 10.4788 - mean\_absolute\_error: 2.46091559/4840 [========>.....................] - ETA: 2s - loss: 10.4760 - mean\_absolute\_error: 2.45961619/4840 [=========>....................] - ETA: 2s - loss: 10.4779 - mean\_absolute\_error: 2.45931679/4840 [=========>....................] - ETA: 2s - loss: 10.4580 - mean\_absolute\_error: 2.45661739/4840 [=========>....................] - ETA: 2s - loss: 10.4680 - mean\_absolute\_error: 2.45801798/4840 [==========>...................] - ETA: 2s - loss: 10.4822 - mean\_absolute\_error: 2.45951859/4840 [==========>...................] - ETA: 2s - loss: 10.4717 - mean\_absolute\_error: 2.45721920/4840 [==========>...................] - ETA: 2s - loss: 10.4728 - mean\_absolute\_error: 2.45731980/4840 [===========>..................] - ETA: 2s - loss: 10.4841 - mean\_absolute\_error: 2.45862040/4840 [===========>..................] - ETA: 2s - loss: 10.4887 - mean\_absolute\_error: 2.45852100/4840 [============>.................] - ETA: 2s - loss: 10.4824 - mean\_absolute\_error: 2.45722161/4840 [============>.................] - ETA: 2s - loss: 10.4889 - mean\_absolute\_error: 2.45762221/4840 [============>.................] - ETA: 2s - loss: 10.4692 - mean\_absolute\_error: 2.45562281/4840 [=============>................] - ETA: 2s - loss: 10.4623 - mean\_absolute\_error: 2.45482339/4840 [=============>................] - ETA: 2s - loss: 10.4678 - mean\_absolute\_error: 2.45562398/4840 [=============>................] - ETA: 2s - loss: 10.4654 - mean\_absolute\_error: 2.45542459/4840 [==============>...............] - ETA: 2s - loss: 10.4783 - mean\_absolute\_error: 2.45652520/4840 [==============>...............] - ETA: 1s - loss: 10.4841 - mean\_absolute\_error: 2.45742580/4840 [==============>...............] - ETA: 1s - loss: 10.4766 - mean\_absolute\_error: 2.45732639/4840 [===============>..............] - ETA: 1s - loss: 10.4776 - mean\_absolute\_error: 2.45782697/4840 [===============>..............] - ETA: 1s - loss: 10.4782 - mean\_absolute\_error: 2.45832758/4840 [================>.............] - ETA: 1s - loss: 10.4651 - mean\_absolute\_error: 2.45652817/4840 [================>.............] - ETA: 1s - loss: 10.4570 - mean\_absolute\_error: 2.45572879/4840 [================>.............] - ETA: 1s - loss: 10.4508 - mean\_absolute\_error: 2.45482939/4840 [=================>............] - ETA: 1s - loss: 10.4522 - mean\_absolute\_error: 2.45442998/4840 [=================>............] - ETA: 1s - loss: 10.4661 - mean\_absolute\_error: 2.45623059/4840 [=================>............] - ETA: 1s - loss: 10.4643 - mean\_absolute\_error: 2.45583118/4840 [==================>...........] - ETA: 1s - loss: 10.4525 - mean\_absolute\_error: 2.45413179/4840 [==================>...........] - ETA: 1s - loss: 10.4514 - mean\_absolute\_error: 2.45373239/4840 [===================>..........] - ETA: 1s - loss: 10.4503 - mean\_absolute\_error: 2.45363300/4840 [===================>..........] - ETA: 1s - loss: 10.4453 - mean\_absolute\_error: 2.45293360/4840 [===================>..........] - ETA: 1s - loss: 10.4481 - mean\_absolute\_error: 2.45313420/4840 [====================>.........] - ETA: 1s - loss: 10.4507 - mean\_absolute\_error: 2.45343480/4840 [====================>.........] - ETA: 1s - loss: 10.4484 - mean\_absolute\_error: 2.45313541/4840 [====================>.........] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45453599/4840 [=====================>........] - ETA: 1s - loss: 10.4665 - mean\_absolute\_error: 2.45573658/4840 [=====================>........] - ETA: 0s - loss: 10.4713 - mean\_absolute\_error: 2.45643718/4840 [======================>.......] - ETA: 0s - loss: 10.4668 - mean\_absolute\_error: 2.45573773/4840 [======================>.......] - ETA: 0s - loss: 10.4737 - mean\_absolute\_error: 2.45663829/4840 [======================>.......] - ETA: 0s - loss: 10.4847 - mean\_absolute\_error: 2.45813888/4840 [=======================>......] - ETA: 0s - loss: 10.4844 - mean\_absolute\_error: 2.45813946/4840 [=======================>......] - ETA: 0s - loss: 10.4794 - mean\_absolute\_error: 2.45814004/4840 [=======================>......] - ETA: 0s - loss: 10.4877 - mean\_absolute\_error: 2.45974065/4840 [========================>.....] - ETA: 0s - loss: 10.4962 - mean\_absolute\_error: 2.46074125/4840 [========================>.....] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.46054185/4840 [========================>.....] - ETA: 0s - loss: 10.5118 - mean\_absolute\_error: 2.46294245/4840 [=========================>....] - ETA: 0s - loss: 10.5168 - mean\_absolute\_error: 2.46324305/4840 [=========================>....] - ETA: 0s - loss: 10.5162 - mean\_absolute\_error: 2.46344364/4840 [==========================>...] - ETA: 0s - loss: 10.5205 - mean\_absolute\_error: 2.46414425/4840 [==========================>...] - ETA: 0s - loss: 10.5129 - mean\_absolute\_error: 2.46334484/4840 [==========================>...] - ETA: 0s - loss: 10.5055 - mean\_absolute\_error: 2.46234543/4840 [===========================>..] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46184603/4840 [===========================>..] - ETA: 0s - loss: 10.5119 - mean\_absolute\_error: 2.46284663/4840 [===========================>..] - ETA: 0s - loss: 10.5082 - mean\_absolute\_error: 2.46264721/4840 [============================>.] - ETA: 0s - loss: 10.5072 - mean\_absolute\_error: 2.46234779/4840 [============================>.] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46194839/4840 [============================>.] - ETA: 0s - loss: 10.5029 - mean\_absolute\_error: 2.46234840/4840 [==============================] - 4s 888us/step - loss: 10.5025 - mean\_absolute\_error: 2.4623 - val\_loss: 11.4912 - val\_mean\_absolute\_error: 2.5813  
Epoch 65/100  
 1/4840 [..............................] - ETA: 9s - loss: 8.1941 - mean\_absolute\_error: 2.2860 58/4840 [..............................] - ETA: 4s - loss: 11.2573 - mean\_absolute\_error: 2.5657 117/4840 [..............................] - ETA: 4s - loss: 10.4180 - mean\_absolute\_error: 2.4675 177/4840 [>.............................] - ETA: 3s - loss: 10.3658 - mean\_absolute\_error: 2.4490 239/4840 [>.............................] - ETA: 3s - loss: 10.4101 - mean\_absolute\_error: 2.4452 298/4840 [>.............................] - ETA: 3s - loss: 10.3943 - mean\_absolute\_error: 2.4457 359/4840 [=>............................] - ETA: 3s - loss: 10.4015 - mean\_absolute\_error: 2.4472 420/4840 [=>............................] - ETA: 3s - loss: 10.3464 - mean\_absolute\_error: 2.4385 479/4840 [=>............................] - ETA: 3s - loss: 10.3721 - mean\_absolute\_error: 2.4421 537/4840 [==>...........................] - ETA: 3s - loss: 10.3869 - mean\_absolute\_error: 2.4452 598/4840 [==>...........................] - ETA: 3s - loss: 10.4582 - mean\_absolute\_error: 2.4551 657/4840 [===>..........................] - ETA: 3s - loss: 10.5211 - mean\_absolute\_error: 2.4624 715/4840 [===>..........................] - ETA: 3s - loss: 10.4757 - mean\_absolute\_error: 2.4559 775/4840 [===>..........................] - ETA: 3s - loss: 10.4499 - mean\_absolute\_error: 2.4508 835/4840 [====>.........................] - ETA: 3s - loss: 10.4465 - mean\_absolute\_error: 2.4497 893/4840 [====>.........................] - ETA: 3s - loss: 10.4582 - mean\_absolute\_error: 2.4509 952/4840 [====>.........................] - ETA: 3s - loss: 10.4313 - mean\_absolute\_error: 2.44811012/4840 [=====>........................] - ETA: 3s - loss: 10.4208 - mean\_absolute\_error: 2.44561071/4840 [=====>........................] - ETA: 3s - loss: 10.4326 - mean\_absolute\_error: 2.44691128/4840 [=====>........................] - ETA: 3s - loss: 10.4463 - mean\_absolute\_error: 2.44901186/4840 [======>.......................] - ETA: 3s - loss: 10.4453 - mean\_absolute\_error: 2.45001246/4840 [======>.......................] - ETA: 3s - loss: 10.4377 - mean\_absolute\_error: 2.44941306/4840 [=======>......................] - ETA: 3s - loss: 10.4582 - mean\_absolute\_error: 2.45181366/4840 [=======>......................] - ETA: 2s - loss: 10.4408 - mean\_absolute\_error: 2.44981427/4840 [=======>......................] - ETA: 2s - loss: 10.4591 - mean\_absolute\_error: 2.45171486/4840 [========>.....................] - ETA: 2s - loss: 10.4891 - mean\_absolute\_error: 2.45591546/4840 [========>.....................] - ETA: 2s - loss: 10.4860 - mean\_absolute\_error: 2.45581605/4840 [========>.....................] - ETA: 2s - loss: 10.5074 - mean\_absolute\_error: 2.45781665/4840 [=========>....................] - ETA: 2s - loss: 10.5195 - mean\_absolute\_error: 2.45941726/4840 [=========>....................] - ETA: 2s - loss: 10.5181 - mean\_absolute\_error: 2.45911786/4840 [==========>...................] - ETA: 2s - loss: 10.5096 - mean\_absolute\_error: 2.45811847/4840 [==========>...................] - ETA: 2s - loss: 10.5134 - mean\_absolute\_error: 2.45901906/4840 [==========>...................] - ETA: 2s - loss: 10.4962 - mean\_absolute\_error: 2.45781964/4840 [===========>..................] - ETA: 2s - loss: 10.5089 - mean\_absolute\_error: 2.45922024/4840 [===========>..................] - ETA: 2s - loss: 10.5128 - mean\_absolute\_error: 2.46022083/4840 [===========>..................] - ETA: 2s - loss: 10.5041 - mean\_absolute\_error: 2.45922143/4840 [============>.................] - ETA: 2s - loss: 10.5181 - mean\_absolute\_error: 2.46162203/4840 [============>.................] - ETA: 2s - loss: 10.5031 - mean\_absolute\_error: 2.45982261/4840 [=============>................] - ETA: 2s - loss: 10.5183 - mean\_absolute\_error: 2.46232319/4840 [=============>................] - ETA: 2s - loss: 10.5171 - mean\_absolute\_error: 2.46282379/4840 [=============>................] - ETA: 2s - loss: 10.5333 - mean\_absolute\_error: 2.46522440/4840 [==============>...............] - ETA: 2s - loss: 10.5367 - mean\_absolute\_error: 2.46572499/4840 [==============>...............] - ETA: 1s - loss: 10.5264 - mean\_absolute\_error: 2.46452559/4840 [==============>...............] - ETA: 1s - loss: 10.5212 - mean\_absolute\_error: 2.46412619/4840 [===============>..............] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46262680/4840 [===============>..............] - ETA: 1s - loss: 10.5132 - mean\_absolute\_error: 2.46372739/4840 [===============>..............] - ETA: 1s - loss: 10.5189 - mean\_absolute\_error: 2.46492800/4840 [================>.............] - ETA: 1s - loss: 10.5138 - mean\_absolute\_error: 2.46462859/4840 [================>.............] - ETA: 1s - loss: 10.5197 - mean\_absolute\_error: 2.46512920/4840 [=================>............] - ETA: 1s - loss: 10.5259 - mean\_absolute\_error: 2.46582981/4840 [=================>............] - ETA: 1s - loss: 10.5241 - mean\_absolute\_error: 2.46543036/4840 [=================>............] - ETA: 1s - loss: 10.5229 - mean\_absolute\_error: 2.46513093/4840 [==================>...........] - ETA: 1s - loss: 10.5222 - mean\_absolute\_error: 2.46543152/4840 [==================>...........] - ETA: 1s - loss: 10.5201 - mean\_absolute\_error: 2.46463212/4840 [==================>...........] - ETA: 1s - loss: 10.5145 - mean\_absolute\_error: 2.46353271/4840 [===================>..........] - ETA: 1s - loss: 10.5116 - mean\_absolute\_error: 2.46323330/4840 [===================>..........] - ETA: 1s - loss: 10.5077 - mean\_absolute\_error: 2.46263391/4840 [====================>.........] - ETA: 1s - loss: 10.5029 - mean\_absolute\_error: 2.46183450/4840 [====================>.........] - ETA: 1s - loss: 10.5057 - mean\_absolute\_error: 2.46173508/4840 [====================>.........] - ETA: 1s - loss: 10.5078 - mean\_absolute\_error: 2.46233568/4840 [=====================>........] - ETA: 1s - loss: 10.5123 - mean\_absolute\_error: 2.46303627/4840 [=====================>........] - ETA: 1s - loss: 10.5148 - mean\_absolute\_error: 2.46343686/4840 [=====================>........] - ETA: 0s - loss: 10.5078 - mean\_absolute\_error: 2.46263746/4840 [======================>.......] - ETA: 0s - loss: 10.5147 - mean\_absolute\_error: 2.46363807/4840 [======================>.......] - ETA: 0s - loss: 10.5158 - mean\_absolute\_error: 2.46373867/4840 [======================>.......] - ETA: 0s - loss: 10.5066 - mean\_absolute\_error: 2.46213926/4840 [=======================>......] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46293986/4840 [=======================>......] - ETA: 0s - loss: 10.5059 - mean\_absolute\_error: 2.46214044/4840 [========================>.....] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46274103/4840 [========================>.....] - ETA: 0s - loss: 10.5104 - mean\_absolute\_error: 2.46294162/4840 [========================>.....] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46234221/4840 [=========================>....] - ETA: 0s - loss: 10.5027 - mean\_absolute\_error: 2.46194279/4840 [=========================>....] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46264336/4840 [=========================>....] - ETA: 0s - loss: 10.5133 - mean\_absolute\_error: 2.46334393/4840 [==========================>...] - ETA: 0s - loss: 10.5166 - mean\_absolute\_error: 2.46354453/4840 [==========================>...] - ETA: 0s - loss: 10.5168 - mean\_absolute\_error: 2.46364511/4840 [==========================>...] - ETA: 0s - loss: 10.5127 - mean\_absolute\_error: 2.46344571/4840 [===========================>..] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46264628/4840 [===========================>..] - ETA: 0s - loss: 10.5086 - mean\_absolute\_error: 2.46304686/4840 [============================>.] - ETA: 0s - loss: 10.5073 - mean\_absolute\_error: 2.46314743/4840 [============================>.] - ETA: 0s - loss: 10.4988 - mean\_absolute\_error: 2.46194803/4840 [============================>.] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46244840/4840 [==============================] - 4s 893us/step - loss: 10.5025 - mean\_absolute\_error: 2.4626 - val\_loss: 11.4930 - val\_mean\_absolute\_error: 2.5799  
Epoch 66/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.9149 - mean\_absolute\_error: 2.5047 60/4840 [..............................] - ETA: 4s - loss: 10.3007 - mean\_absolute\_error: 2.3996 121/4840 [..............................] - ETA: 3s - loss: 10.2429 - mean\_absolute\_error: 2.4180 181/4840 [>.............................] - ETA: 3s - loss: 10.1454 - mean\_absolute\_error: 2.4032 241/4840 [>.............................] - ETA: 3s - loss: 10.2045 - mean\_absolute\_error: 2.4075 301/4840 [>.............................] - ETA: 3s - loss: 10.2021 - mean\_absolute\_error: 2.4156 361/4840 [=>............................] - ETA: 3s - loss: 10.2132 - mean\_absolute\_error: 2.4214 420/4840 [=>............................] - ETA: 3s - loss: 10.2907 - mean\_absolute\_error: 2.4286 480/4840 [=>............................] - ETA: 3s - loss: 10.3427 - mean\_absolute\_error: 2.4362 540/4840 [==>...........................] - ETA: 3s - loss: 10.3209 - mean\_absolute\_error: 2.4311 600/4840 [==>...........................] - ETA: 3s - loss: 10.3371 - mean\_absolute\_error: 2.4355 658/4840 [===>..........................] - ETA: 3s - loss: 10.3102 - mean\_absolute\_error: 2.4326 716/4840 [===>..........................] - ETA: 3s - loss: 10.3250 - mean\_absolute\_error: 2.4337 774/4840 [===>..........................] - ETA: 3s - loss: 10.3276 - mean\_absolute\_error: 2.4328 833/4840 [====>.........................] - ETA: 3s - loss: 10.3323 - mean\_absolute\_error: 2.4360 891/4840 [====>.........................] - ETA: 3s - loss: 10.2984 - mean\_absolute\_error: 2.4325 951/4840 [====>.........................] - ETA: 3s - loss: 10.2896 - mean\_absolute\_error: 2.43141010/4840 [=====>........................] - ETA: 3s - loss: 10.2974 - mean\_absolute\_error: 2.43181069/4840 [=====>........................] - ETA: 3s - loss: 10.3165 - mean\_absolute\_error: 2.43411129/4840 [=====>........................] - ETA: 3s - loss: 10.3079 - mean\_absolute\_error: 2.43421188/4840 [======>.......................] - ETA: 3s - loss: 10.3546 - mean\_absolute\_error: 2.44121246/4840 [======>.......................] - ETA: 3s - loss: 10.3686 - mean\_absolute\_error: 2.44331304/4840 [=======>......................] - ETA: 3s - loss: 10.3577 - mean\_absolute\_error: 2.44231364/4840 [=======>......................] - ETA: 2s - loss: 10.4145 - mean\_absolute\_error: 2.44981423/4840 [=======>......................] - ETA: 2s - loss: 10.4286 - mean\_absolute\_error: 2.45161482/4840 [========>.....................] - ETA: 2s - loss: 10.4248 - mean\_absolute\_error: 2.45111539/4840 [========>.....................] - ETA: 2s - loss: 10.4355 - mean\_absolute\_error: 2.45201596/4840 [========>.....................] - ETA: 2s - loss: 10.4268 - mean\_absolute\_error: 2.45021655/4840 [=========>....................] - ETA: 2s - loss: 10.4087 - mean\_absolute\_error: 2.44851715/4840 [=========>....................] - ETA: 2s - loss: 10.4208 - mean\_absolute\_error: 2.44921773/4840 [=========>....................] - ETA: 2s - loss: 10.4241 - mean\_absolute\_error: 2.44991832/4840 [==========>...................] - ETA: 2s - loss: 10.4267 - mean\_absolute\_error: 2.45121888/4840 [==========>...................] - ETA: 2s - loss: 10.4301 - mean\_absolute\_error: 2.45011947/4840 [===========>..................] - ETA: 2s - loss: 10.4336 - mean\_absolute\_error: 2.45092004/4840 [===========>..................] - ETA: 2s - loss: 10.4222 - mean\_absolute\_error: 2.44922064/4840 [===========>..................] - ETA: 2s - loss: 10.4358 - mean\_absolute\_error: 2.45172122/4840 [============>.................] - ETA: 2s - loss: 10.4377 - mean\_absolute\_error: 2.45252182/4840 [============>.................] - ETA: 2s - loss: 10.4405 - mean\_absolute\_error: 2.45222241/4840 [============>.................] - ETA: 2s - loss: 10.4233 - mean\_absolute\_error: 2.45002301/4840 [=============>................] - ETA: 2s - loss: 10.4338 - mean\_absolute\_error: 2.45152361/4840 [=============>................] - ETA: 2s - loss: 10.4110 - mean\_absolute\_error: 2.44902419/4840 [=============>................] - ETA: 2s - loss: 10.3978 - mean\_absolute\_error: 2.44672477/4840 [==============>...............] - ETA: 2s - loss: 10.3967 - mean\_absolute\_error: 2.44622537/4840 [==============>...............] - ETA: 1s - loss: 10.4097 - mean\_absolute\_error: 2.44852596/4840 [===============>..............] - ETA: 1s - loss: 10.4088 - mean\_absolute\_error: 2.44842656/4840 [===============>..............] - ETA: 1s - loss: 10.4177 - mean\_absolute\_error: 2.44982714/4840 [===============>..............] - ETA: 1s - loss: 10.4271 - mean\_absolute\_error: 2.45132771/4840 [================>.............] - ETA: 1s - loss: 10.4314 - mean\_absolute\_error: 2.45142829/4840 [================>.............] - ETA: 1s - loss: 10.4380 - mean\_absolute\_error: 2.45192888/4840 [================>.............] - ETA: 1s - loss: 10.4451 - mean\_absolute\_error: 2.45262947/4840 [=================>............] - ETA: 1s - loss: 10.4517 - mean\_absolute\_error: 2.45303007/4840 [=================>............] - ETA: 1s - loss: 10.4509 - mean\_absolute\_error: 2.45303063/4840 [=================>............] - ETA: 1s - loss: 10.4477 - mean\_absolute\_error: 2.45303122/4840 [==================>...........] - ETA: 1s - loss: 10.4590 - mean\_absolute\_error: 2.45423179/4840 [==================>...........] - ETA: 1s - loss: 10.4580 - mean\_absolute\_error: 2.45473239/4840 [===================>..........] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45433298/4840 [===================>..........] - ETA: 1s - loss: 10.4539 - mean\_absolute\_error: 2.45403357/4840 [===================>..........] - ETA: 1s - loss: 10.4592 - mean\_absolute\_error: 2.45493417/4840 [====================>.........] - ETA: 1s - loss: 10.4573 - mean\_absolute\_error: 2.45473477/4840 [====================>.........] - ETA: 1s - loss: 10.4597 - mean\_absolute\_error: 2.45473535/4840 [====================>.........] - ETA: 1s - loss: 10.4532 - mean\_absolute\_error: 2.45423593/4840 [=====================>........] - ETA: 1s - loss: 10.4577 - mean\_absolute\_error: 2.45513653/4840 [=====================>........] - ETA: 1s - loss: 10.4628 - mean\_absolute\_error: 2.45593711/4840 [======================>.......] - ETA: 0s - loss: 10.4549 - mean\_absolute\_error: 2.45493769/4840 [======================>.......] - ETA: 0s - loss: 10.4552 - mean\_absolute\_error: 2.45523829/4840 [======================>.......] - ETA: 0s - loss: 10.4427 - mean\_absolute\_error: 2.45373889/4840 [=======================>......] - ETA: 0s - loss: 10.4473 - mean\_absolute\_error: 2.45423947/4840 [=======================>......] - ETA: 0s - loss: 10.4525 - mean\_absolute\_error: 2.45464006/4840 [=======================>......] - ETA: 0s - loss: 10.4597 - mean\_absolute\_error: 2.45524066/4840 [========================>.....] - ETA: 0s - loss: 10.4755 - mean\_absolute\_error: 2.45744125/4840 [========================>.....] - ETA: 0s - loss: 10.4755 - mean\_absolute\_error: 2.45714184/4840 [========================>.....] - ETA: 0s - loss: 10.4742 - mean\_absolute\_error: 2.45704240/4840 [=========================>....] - ETA: 0s - loss: 10.4786 - mean\_absolute\_error: 2.45764297/4840 [=========================>....] - ETA: 0s - loss: 10.4852 - mean\_absolute\_error: 2.45824356/4840 [==========================>...] - ETA: 0s - loss: 10.4867 - mean\_absolute\_error: 2.45824415/4840 [==========================>...] - ETA: 0s - loss: 10.4852 - mean\_absolute\_error: 2.45794474/4840 [==========================>...] - ETA: 0s - loss: 10.4882 - mean\_absolute\_error: 2.45834534/4840 [===========================>..] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45764594/4840 [===========================>..] - ETA: 0s - loss: 10.4878 - mean\_absolute\_error: 2.45794654/4840 [===========================>..] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.45884712/4840 [============================>.] - ETA: 0s - loss: 10.4936 - mean\_absolute\_error: 2.45914771/4840 [============================>.] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46074831/4840 [============================>.] - ETA: 0s - loss: 10.5047 - mean\_absolute\_error: 2.46054840/4840 [==============================] - 4s 896us/step - loss: 10.5037 - mean\_absolute\_error: 2.4604 - val\_loss: 11.4948 - val\_mean\_absolute\_error: 2.5807  
Epoch 67/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.8192 - mean\_absolute\_error: 2.4685 61/4840 [..............................] - ETA: 4s - loss: 9.6803 - mean\_absolute\_error: 2.3575 121/4840 [..............................] - ETA: 3s - loss: 10.0476 - mean\_absolute\_error: 2.4022 182/4840 [>.............................] - ETA: 3s - loss: 10.3014 - mean\_absolute\_error: 2.4246 241/4840 [>.............................] - ETA: 3s - loss: 10.3206 - mean\_absolute\_error: 2.4357 300/4840 [>.............................] - ETA: 3s - loss: 10.2503 - mean\_absolute\_error: 2.4239 357/4840 [=>............................] - ETA: 3s - loss: 10.2651 - mean\_absolute\_error: 2.4274 416/4840 [=>............................] - ETA: 3s - loss: 10.2331 - mean\_absolute\_error: 2.4256 476/4840 [=>............................] - ETA: 3s - loss: 10.2580 - mean\_absolute\_error: 2.4287 535/4840 [==>...........................] - ETA: 3s - loss: 10.3099 - mean\_absolute\_error: 2.4375 594/4840 [==>...........................] - ETA: 3s - loss: 10.3056 - mean\_absolute\_error: 2.4369 654/4840 [===>..........................] - ETA: 3s - loss: 10.2730 - mean\_absolute\_error: 2.4320 712/4840 [===>..........................] - ETA: 3s - loss: 10.2925 - mean\_absolute\_error: 2.4367 772/4840 [===>..........................] - ETA: 3s - loss: 10.3227 - mean\_absolute\_error: 2.4404 832/4840 [====>.........................] - ETA: 3s - loss: 10.3161 - mean\_absolute\_error: 2.4380 892/4840 [====>.........................] - ETA: 3s - loss: 10.3092 - mean\_absolute\_error: 2.4374 951/4840 [====>.........................] - ETA: 3s - loss: 10.3178 - mean\_absolute\_error: 2.43901010/4840 [=====>........................] - ETA: 3s - loss: 10.3068 - mean\_absolute\_error: 2.43841068/4840 [=====>........................] - ETA: 3s - loss: 10.3289 - mean\_absolute\_error: 2.44051128/4840 [=====>........................] - ETA: 3s - loss: 10.3439 - mean\_absolute\_error: 2.44251185/4840 [======>.......................] - ETA: 3s - loss: 10.3778 - mean\_absolute\_error: 2.44681244/4840 [======>.......................] - ETA: 3s - loss: 10.3936 - mean\_absolute\_error: 2.44831303/4840 [=======>......................] - ETA: 3s - loss: 10.3985 - mean\_absolute\_error: 2.44831363/4840 [=======>......................] - ETA: 2s - loss: 10.4164 - mean\_absolute\_error: 2.45061423/4840 [=======>......................] - ETA: 2s - loss: 10.4233 - mean\_absolute\_error: 2.45051479/4840 [========>.....................] - ETA: 2s - loss: 10.4290 - mean\_absolute\_error: 2.45051537/4840 [========>.....................] - ETA: 2s - loss: 10.4285 - mean\_absolute\_error: 2.45041597/4840 [========>.....................] - ETA: 2s - loss: 10.4181 - mean\_absolute\_error: 2.44871657/4840 [=========>....................] - ETA: 2s - loss: 10.4070 - mean\_absolute\_error: 2.44821719/4840 [=========>....................] - ETA: 2s - loss: 10.4111 - mean\_absolute\_error: 2.44901779/4840 [==========>...................] - ETA: 2s - loss: 10.4121 - mean\_absolute\_error: 2.44941840/4840 [==========>...................] - ETA: 2s - loss: 10.4236 - mean\_absolute\_error: 2.45101901/4840 [==========>...................] - ETA: 2s - loss: 10.4255 - mean\_absolute\_error: 2.45121961/4840 [===========>..................] - ETA: 2s - loss: 10.4209 - mean\_absolute\_error: 2.45052021/4840 [===========>..................] - ETA: 2s - loss: 10.4429 - mean\_absolute\_error: 2.45282080/4840 [===========>..................] - ETA: 2s - loss: 10.4416 - mean\_absolute\_error: 2.45212139/4840 [============>.................] - ETA: 2s - loss: 10.4508 - mean\_absolute\_error: 2.45312200/4840 [============>.................] - ETA: 2s - loss: 10.4642 - mean\_absolute\_error: 2.45492260/4840 [=============>................] - ETA: 2s - loss: 10.4640 - mean\_absolute\_error: 2.45482320/4840 [=============>................] - ETA: 2s - loss: 10.4690 - mean\_absolute\_error: 2.45502380/4840 [=============>................] - ETA: 2s - loss: 10.4889 - mean\_absolute\_error: 2.45732441/4840 [==============>...............] - ETA: 2s - loss: 10.4829 - mean\_absolute\_error: 2.45592502/4840 [==============>...............] - ETA: 1s - loss: 10.4801 - mean\_absolute\_error: 2.45612563/4840 [==============>...............] - ETA: 1s - loss: 10.4957 - mean\_absolute\_error: 2.45812622/4840 [===============>..............] - ETA: 1s - loss: 10.4817 - mean\_absolute\_error: 2.45612680/4840 [===============>..............] - ETA: 1s - loss: 10.4891 - mean\_absolute\_error: 2.45702737/4840 [===============>..............] - ETA: 1s - loss: 10.4995 - mean\_absolute\_error: 2.45802795/4840 [================>.............] - ETA: 1s - loss: 10.4979 - mean\_absolute\_error: 2.45802856/4840 [================>.............] - ETA: 1s - loss: 10.4970 - mean\_absolute\_error: 2.45822916/4840 [=================>............] - ETA: 1s - loss: 10.4990 - mean\_absolute\_error: 2.45842977/4840 [=================>............] - ETA: 1s - loss: 10.5054 - mean\_absolute\_error: 2.45913038/4840 [=================>............] - ETA: 1s - loss: 10.5083 - mean\_absolute\_error: 2.45913099/4840 [==================>...........] - ETA: 1s - loss: 10.5174 - mean\_absolute\_error: 2.46063160/4840 [==================>...........] - ETA: 1s - loss: 10.5165 - mean\_absolute\_error: 2.46053221/4840 [==================>...........] - ETA: 1s - loss: 10.5128 - mean\_absolute\_error: 2.46033281/4840 [===================>..........] - ETA: 1s - loss: 10.5196 - mean\_absolute\_error: 2.46113340/4840 [===================>..........] - ETA: 1s - loss: 10.5270 - mean\_absolute\_error: 2.46223398/4840 [====================>.........] - ETA: 1s - loss: 10.5230 - mean\_absolute\_error: 2.46213458/4840 [====================>.........] - ETA: 1s - loss: 10.5207 - mean\_absolute\_error: 2.46203518/4840 [====================>.........] - ETA: 1s - loss: 10.5120 - mean\_absolute\_error: 2.46103575/4840 [=====================>........] - ETA: 1s - loss: 10.5231 - mean\_absolute\_error: 2.46253634/4840 [=====================>........] - ETA: 1s - loss: 10.5164 - mean\_absolute\_error: 2.46213695/4840 [=====================>........] - ETA: 0s - loss: 10.5066 - mean\_absolute\_error: 2.46103756/4840 [======================>.......] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46023816/4840 [======================>.......] - ETA: 0s - loss: 10.5011 - mean\_absolute\_error: 2.46033856/4840 [======================>.......] - ETA: 0s - loss: 10.5049 - mean\_absolute\_error: 2.46083884/4840 [=======================>......] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46023908/4840 [=======================>......] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46003938/4840 [=======================>......] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46013977/4840 [=======================>......] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46074017/4840 [=======================>......] - ETA: 0s - loss: 10.5044 - mean\_absolute\_error: 2.46044056/4840 [========================>.....] - ETA: 0s - loss: 10.5047 - mean\_absolute\_error: 2.46034103/4840 [========================>.....] - ETA: 0s - loss: 10.4948 - mean\_absolute\_error: 2.45924139/4840 [========================>.....] - ETA: 0s - loss: 10.4938 - mean\_absolute\_error: 2.45884172/4840 [========================>.....] - ETA: 0s - loss: 10.4950 - mean\_absolute\_error: 2.45904204/4840 [=========================>....] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.45944236/4840 [=========================>....] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.45904269/4840 [=========================>....] - ETA: 0s - loss: 10.4923 - mean\_absolute\_error: 2.45834304/4840 [=========================>....] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.45904332/4840 [=========================>....] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.45894361/4840 [==========================>...] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.45884392/4840 [==========================>...] - ETA: 0s - loss: 10.4943 - mean\_absolute\_error: 2.45864422/4840 [==========================>...] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.45914454/4840 [==========================>...] - ETA: 0s - loss: 10.4990 - mean\_absolute\_error: 2.45964485/4840 [==========================>...] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.45974513/4840 [==========================>...] - ETA: 0s - loss: 10.4943 - mean\_absolute\_error: 2.45944542/4840 [===========================>..] - ETA: 0s - loss: 10.4907 - mean\_absolute\_error: 2.45874572/4840 [===========================>..] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45814602/4840 [===========================>..] - ETA: 0s - loss: 10.4842 - mean\_absolute\_error: 2.45784632/4840 [===========================>..] - ETA: 0s - loss: 10.4907 - mean\_absolute\_error: 2.45884665/4840 [===========================>..] - ETA: 0s - loss: 10.4890 - mean\_absolute\_error: 2.45854700/4840 [============================>.] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.45894743/4840 [============================>.] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.45924793/4840 [============================>.] - ETA: 0s - loss: 10.4980 - mean\_absolute\_error: 2.46014840/4840 [==============================] - 5s 1ms/step - loss: 10.5029 - mean\_absolute\_error: 2.4608 - val\_loss: 11.4938 - val\_mean\_absolute\_error: 2.5807  
Epoch 68/100  
 1/4840 [..............................] - ETA: 9s - loss: 8.0247 - mean\_absolute\_error: 2.0909 49/4840 [..............................] - ETA: 5s - loss: 11.0236 - mean\_absolute\_error: 2.5555 102/4840 [..............................] - ETA: 4s - loss: 10.7864 - mean\_absolute\_error: 2.5057 152/4840 [..............................] - ETA: 4s - loss: 10.5013 - mean\_absolute\_error: 2.4752 205/4840 [>.............................] - ETA: 4s - loss: 10.6577 - mean\_absolute\_error: 2.4986 255/4840 [>.............................] - ETA: 4s - loss: 10.5734 - mean\_absolute\_error: 2.4800 301/4840 [>.............................] - ETA: 4s - loss: 10.5626 - mean\_absolute\_error: 2.4830 349/4840 [=>............................] - ETA: 4s - loss: 10.5269 - mean\_absolute\_error: 2.4760 397/4840 [=>............................] - ETA: 4s - loss: 10.4637 - mean\_absolute\_error: 2.4672 446/4840 [=>............................] - ETA: 4s - loss: 10.4629 - mean\_absolute\_error: 2.4677 494/4840 [==>...........................] - ETA: 4s - loss: 10.4790 - mean\_absolute\_error: 2.4715 543/4840 [==>...........................] - ETA: 4s - loss: 10.5355 - mean\_absolute\_error: 2.4784 591/4840 [==>...........................] - ETA: 4s - loss: 10.5243 - mean\_absolute\_error: 2.4760 640/4840 [==>...........................] - ETA: 4s - loss: 10.5576 - mean\_absolute\_error: 2.4798 687/4840 [===>..........................] - ETA: 4s - loss: 10.5345 - mean\_absolute\_error: 2.4754 738/4840 [===>..........................] - ETA: 4s - loss: 10.5317 - mean\_absolute\_error: 2.4735 790/4840 [===>..........................] - ETA: 4s - loss: 10.4968 - mean\_absolute\_error: 2.4696 840/4840 [====>.........................] - ETA: 4s - loss: 10.4863 - mean\_absolute\_error: 2.4680 893/4840 [====>.........................] - ETA: 4s - loss: 10.4788 - mean\_absolute\_error: 2.4657 941/4840 [====>.........................] - ETA: 3s - loss: 10.4806 - mean\_absolute\_error: 2.4660 990/4840 [=====>........................] - ETA: 3s - loss: 10.4980 - mean\_absolute\_error: 2.46561041/4840 [=====>........................] - ETA: 3s - loss: 10.4813 - mean\_absolute\_error: 2.46311091/4840 [=====>........................] - ETA: 3s - loss: 10.4781 - mean\_absolute\_error: 2.46221142/4840 [======>.......................] - ETA: 3s - loss: 10.4432 - mean\_absolute\_error: 2.45931194/4840 [======>.......................] - ETA: 3s - loss: 10.4265 - mean\_absolute\_error: 2.45751247/4840 [======>.......................] - ETA: 3s - loss: 10.4176 - mean\_absolute\_error: 2.45661297/4840 [=======>......................] - ETA: 3s - loss: 10.4223 - mean\_absolute\_error: 2.45641348/4840 [=======>......................] - ETA: 3s - loss: 10.4090 - mean\_absolute\_error: 2.45481399/4840 [=======>......................] - ETA: 3s - loss: 10.4096 - mean\_absolute\_error: 2.45531451/4840 [=======>......................] - ETA: 3s - loss: 10.3915 - mean\_absolute\_error: 2.45211498/4840 [========>.....................] - ETA: 3s - loss: 10.3889 - mean\_absolute\_error: 2.45171545/4840 [========>.....................] - ETA: 3s - loss: 10.3806 - mean\_absolute\_error: 2.45021592/4840 [========>.....................] - ETA: 3s - loss: 10.3759 - mean\_absolute\_error: 2.44921640/4840 [=========>....................] - ETA: 3s - loss: 10.3961 - mean\_absolute\_error: 2.45241693/4840 [=========>....................] - ETA: 3s - loss: 10.3916 - mean\_absolute\_error: 2.45071745/4840 [=========>....................] - ETA: 3s - loss: 10.4038 - mean\_absolute\_error: 2.45221797/4840 [==========>...................] - ETA: 3s - loss: 10.4181 - mean\_absolute\_error: 2.45381849/4840 [==========>...................] - ETA: 3s - loss: 10.4171 - mean\_absolute\_error: 2.45341902/4840 [==========>...................] - ETA: 2s - loss: 10.4144 - mean\_absolute\_error: 2.45321953/4840 [===========>..................] - ETA: 2s - loss: 10.4116 - mean\_absolute\_error: 2.45242003/4840 [===========>..................] - ETA: 2s - loss: 10.4142 - mean\_absolute\_error: 2.45252062/4840 [===========>..................] - ETA: 2s - loss: 10.4192 - mean\_absolute\_error: 2.45262121/4840 [============>.................] - ETA: 2s - loss: 10.4225 - mean\_absolute\_error: 2.45332179/4840 [============>.................] - ETA: 2s - loss: 10.4220 - mean\_absolute\_error: 2.45372239/4840 [============>.................] - ETA: 2s - loss: 10.4160 - mean\_absolute\_error: 2.45342297/4840 [=============>................] - ETA: 2s - loss: 10.4188 - mean\_absolute\_error: 2.45402354/4840 [=============>................] - ETA: 2s - loss: 10.4138 - mean\_absolute\_error: 2.45332412/4840 [=============>................] - ETA: 2s - loss: 10.4179 - mean\_absolute\_error: 2.45402471/4840 [==============>...............] - ETA: 2s - loss: 10.4308 - mean\_absolute\_error: 2.45512528/4840 [==============>...............] - ETA: 2s - loss: 10.4294 - mean\_absolute\_error: 2.45492586/4840 [===============>..............] - ETA: 2s - loss: 10.4388 - mean\_absolute\_error: 2.45642645/4840 [===============>..............] - ETA: 2s - loss: 10.4421 - mean\_absolute\_error: 2.45702704/4840 [===============>..............] - ETA: 2s - loss: 10.4326 - mean\_absolute\_error: 2.45492762/4840 [================>.............] - ETA: 2s - loss: 10.4445 - mean\_absolute\_error: 2.45592816/4840 [================>.............] - ETA: 1s - loss: 10.4378 - mean\_absolute\_error: 2.45512865/4840 [================>.............] - ETA: 1s - loss: 10.4412 - mean\_absolute\_error: 2.45582919/4840 [=================>............] - ETA: 1s - loss: 10.4357 - mean\_absolute\_error: 2.45492972/4840 [=================>............] - ETA: 1s - loss: 10.4264 - mean\_absolute\_error: 2.45423026/4840 [=================>............] - ETA: 1s - loss: 10.4300 - mean\_absolute\_error: 2.45473078/4840 [==================>...........] - ETA: 1s - loss: 10.4365 - mean\_absolute\_error: 2.45493131/4840 [==================>...........] - ETA: 1s - loss: 10.4476 - mean\_absolute\_error: 2.45603183/4840 [==================>...........] - ETA: 1s - loss: 10.4480 - mean\_absolute\_error: 2.45603230/4840 [===================>..........] - ETA: 1s - loss: 10.4475 - mean\_absolute\_error: 2.45633279/4840 [===================>..........] - ETA: 1s - loss: 10.4572 - mean\_absolute\_error: 2.45703327/4840 [===================>..........] - ETA: 1s - loss: 10.4536 - mean\_absolute\_error: 2.45633375/4840 [===================>..........] - ETA: 1s - loss: 10.4551 - mean\_absolute\_error: 2.45683422/4840 [====================>.........] - ETA: 1s - loss: 10.4556 - mean\_absolute\_error: 2.45703474/4840 [====================>.........] - ETA: 1s - loss: 10.4646 - mean\_absolute\_error: 2.45813526/4840 [====================>.........] - ETA: 1s - loss: 10.4679 - mean\_absolute\_error: 2.45833575/4840 [=====================>........] - ETA: 1s - loss: 10.4732 - mean\_absolute\_error: 2.45893632/4840 [=====================>........] - ETA: 1s - loss: 10.4745 - mean\_absolute\_error: 2.45883692/4840 [=====================>........] - ETA: 1s - loss: 10.4765 - mean\_absolute\_error: 2.45883752/4840 [======================>.......] - ETA: 1s - loss: 10.4837 - mean\_absolute\_error: 2.45983810/4840 [======================>.......] - ETA: 0s - loss: 10.4810 - mean\_absolute\_error: 2.45903862/4840 [======================>.......] - ETA: 0s - loss: 10.4690 - mean\_absolute\_error: 2.45713910/4840 [=======================>......] - ETA: 0s - loss: 10.4672 - mean\_absolute\_error: 2.45733961/4840 [=======================>......] - ETA: 0s - loss: 10.4674 - mean\_absolute\_error: 2.45744011/4840 [=======================>......] - ETA: 0s - loss: 10.4729 - mean\_absolute\_error: 2.45844059/4840 [========================>.....] - ETA: 0s - loss: 10.4783 - mean\_absolute\_error: 2.45904111/4840 [========================>.....] - ETA: 0s - loss: 10.4761 - mean\_absolute\_error: 2.45844165/4840 [========================>.....] - ETA: 0s - loss: 10.4754 - mean\_absolute\_error: 2.45844226/4840 [=========================>....] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45934286/4840 [=========================>....] - ETA: 0s - loss: 10.4796 - mean\_absolute\_error: 2.45914347/4840 [=========================>....] - ETA: 0s - loss: 10.4810 - mean\_absolute\_error: 2.45914407/4840 [==========================>...] - ETA: 0s - loss: 10.4742 - mean\_absolute\_error: 2.45824465/4840 [==========================>...] - ETA: 0s - loss: 10.4752 - mean\_absolute\_error: 2.45834523/4840 [===========================>..] - ETA: 0s - loss: 10.4789 - mean\_absolute\_error: 2.45844581/4840 [===========================>..] - ETA: 0s - loss: 10.4828 - mean\_absolute\_error: 2.45894641/4840 [===========================>..] - ETA: 0s - loss: 10.4891 - mean\_absolute\_error: 2.45964701/4840 [============================>.] - ETA: 0s - loss: 10.4977 - mean\_absolute\_error: 2.46094761/4840 [============================>.] - ETA: 0s - loss: 10.4970 - mean\_absolute\_error: 2.46104819/4840 [============================>.] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46084840/4840 [==============================] - 5s 994us/step - loss: 10.5024 - mean\_absolute\_error: 2.4614 - val\_loss: 11.4907 - val\_mean\_absolute\_error: 2.5806  
Epoch 69/100  
 1/4840 [..............................] - ETA: 7s - loss: 8.0924 - mean\_absolute\_error: 2.2560 51/4840 [..............................] - ETA: 4s - loss: 10.3589 - mean\_absolute\_error: 2.4497 100/4840 [..............................] - ETA: 4s - loss: 10.2390 - mean\_absolute\_error: 2.4413 157/4840 [..............................] - ETA: 4s - loss: 10.3541 - mean\_absolute\_error: 2.4541 216/4840 [>.............................] - ETA: 4s - loss: 10.3055 - mean\_absolute\_error: 2.4453 276/4840 [>.............................] - ETA: 4s - loss: 10.3660 - mean\_absolute\_error: 2.4555 335/4840 [=>............................] - ETA: 4s - loss: 10.4610 - mean\_absolute\_error: 2.4675 394/4840 [=>............................] - ETA: 3s - loss: 10.3985 - mean\_absolute\_error: 2.4547 454/4840 [=>............................] - ETA: 3s - loss: 10.3810 - mean\_absolute\_error: 2.4542 513/4840 [==>...........................] - ETA: 3s - loss: 10.3501 - mean\_absolute\_error: 2.4488 571/4840 [==>...........................] - ETA: 3s - loss: 10.3560 - mean\_absolute\_error: 2.4477 631/4840 [==>...........................] - ETA: 3s - loss: 10.3901 - mean\_absolute\_error: 2.4515 690/4840 [===>..........................] - ETA: 3s - loss: 10.3940 - mean\_absolute\_error: 2.4503 751/4840 [===>..........................] - ETA: 3s - loss: 10.3978 - mean\_absolute\_error: 2.4511 809/4840 [====>.........................] - ETA: 3s - loss: 10.3959 - mean\_absolute\_error: 2.4495 868/4840 [====>.........................] - ETA: 3s - loss: 10.3882 - mean\_absolute\_error: 2.4487 927/4840 [====>.........................] - ETA: 3s - loss: 10.4096 - mean\_absolute\_error: 2.4513 986/4840 [=====>........................] - ETA: 3s - loss: 10.3981 - mean\_absolute\_error: 2.44931046/4840 [=====>........................] - ETA: 3s - loss: 10.3657 - mean\_absolute\_error: 2.44581105/4840 [=====>........................] - ETA: 3s - loss: 10.3492 - mean\_absolute\_error: 2.44411164/4840 [======>.......................] - ETA: 3s - loss: 10.3552 - mean\_absolute\_error: 2.44481222/4840 [======>.......................] - ETA: 3s - loss: 10.3488 - mean\_absolute\_error: 2.44351281/4840 [======>.......................] - ETA: 3s - loss: 10.3641 - mean\_absolute\_error: 2.44491339/4840 [=======>......................] - ETA: 3s - loss: 10.3513 - mean\_absolute\_error: 2.44251395/4840 [=======>......................] - ETA: 2s - loss: 10.3582 - mean\_absolute\_error: 2.44381454/4840 [========>.....................] - ETA: 2s - loss: 10.3653 - mean\_absolute\_error: 2.44441512/4840 [========>.....................] - ETA: 2s - loss: 10.3534 - mean\_absolute\_error: 2.44371572/4840 [========>.....................] - ETA: 2s - loss: 10.3459 - mean\_absolute\_error: 2.44261631/4840 [=========>....................] - ETA: 2s - loss: 10.3468 - mean\_absolute\_error: 2.44311691/4840 [=========>....................] - ETA: 2s - loss: 10.3486 - mean\_absolute\_error: 2.44311748/4840 [=========>....................] - ETA: 2s - loss: 10.3619 - mean\_absolute\_error: 2.44461807/4840 [==========>...................] - ETA: 2s - loss: 10.3642 - mean\_absolute\_error: 2.44481867/4840 [==========>...................] - ETA: 2s - loss: 10.3800 - mean\_absolute\_error: 2.44701926/4840 [==========>...................] - ETA: 2s - loss: 10.3950 - mean\_absolute\_error: 2.44911986/4840 [===========>..................] - ETA: 2s - loss: 10.4234 - mean\_absolute\_error: 2.45232044/4840 [===========>..................] - ETA: 2s - loss: 10.4335 - mean\_absolute\_error: 2.45302102/4840 [============>.................] - ETA: 2s - loss: 10.4385 - mean\_absolute\_error: 2.45352162/4840 [============>.................] - ETA: 2s - loss: 10.4568 - mean\_absolute\_error: 2.45592221/4840 [============>.................] - ETA: 2s - loss: 10.4483 - mean\_absolute\_error: 2.45472281/4840 [=============>................] - ETA: 2s - loss: 10.4487 - mean\_absolute\_error: 2.45472340/4840 [=============>................] - ETA: 2s - loss: 10.4489 - mean\_absolute\_error: 2.45522399/4840 [=============>................] - ETA: 2s - loss: 10.4320 - mean\_absolute\_error: 2.45312459/4840 [==============>...............] - ETA: 2s - loss: 10.4245 - mean\_absolute\_error: 2.45232517/4840 [==============>...............] - ETA: 2s - loss: 10.4267 - mean\_absolute\_error: 2.45262575/4840 [==============>...............] - ETA: 1s - loss: 10.4188 - mean\_absolute\_error: 2.45182632/4840 [===============>..............] - ETA: 1s - loss: 10.4134 - mean\_absolute\_error: 2.45122693/4840 [===============>..............] - ETA: 1s - loss: 10.4290 - mean\_absolute\_error: 2.45262753/4840 [================>.............] - ETA: 1s - loss: 10.4309 - mean\_absolute\_error: 2.45252814/4840 [================>.............] - ETA: 1s - loss: 10.4402 - mean\_absolute\_error: 2.45312870/4840 [================>.............] - ETA: 1s - loss: 10.4465 - mean\_absolute\_error: 2.45382929/4840 [=================>............] - ETA: 1s - loss: 10.4508 - mean\_absolute\_error: 2.45472987/4840 [=================>............] - ETA: 1s - loss: 10.4571 - mean\_absolute\_error: 2.45553046/4840 [=================>............] - ETA: 1s - loss: 10.4674 - mean\_absolute\_error: 2.45713105/4840 [==================>...........] - ETA: 1s - loss: 10.4562 - mean\_absolute\_error: 2.45553165/4840 [==================>...........] - ETA: 1s - loss: 10.4456 - mean\_absolute\_error: 2.45443222/4840 [==================>...........] - ETA: 1s - loss: 10.4450 - mean\_absolute\_error: 2.45463278/4840 [===================>..........] - ETA: 1s - loss: 10.4569 - mean\_absolute\_error: 2.45613337/4840 [===================>..........] - ETA: 1s - loss: 10.4572 - mean\_absolute\_error: 2.45603396/4840 [====================>.........] - ETA: 1s - loss: 10.4563 - mean\_absolute\_error: 2.45593457/4840 [====================>.........] - ETA: 1s - loss: 10.4705 - mean\_absolute\_error: 2.45743516/4840 [====================>.........] - ETA: 1s - loss: 10.4683 - mean\_absolute\_error: 2.45703575/4840 [=====================>........] - ETA: 1s - loss: 10.4718 - mean\_absolute\_error: 2.45753633/4840 [=====================>........] - ETA: 1s - loss: 10.4741 - mean\_absolute\_error: 2.45803689/4840 [=====================>........] - ETA: 0s - loss: 10.4805 - mean\_absolute\_error: 2.45863745/4840 [======================>.......] - ETA: 0s - loss: 10.4796 - mean\_absolute\_error: 2.45873804/4840 [======================>.......] - ETA: 0s - loss: 10.4763 - mean\_absolute\_error: 2.45863863/4840 [======================>.......] - ETA: 0s - loss: 10.4867 - mean\_absolute\_error: 2.46023923/4840 [=======================>......] - ETA: 0s - loss: 10.4804 - mean\_absolute\_error: 2.45953983/4840 [=======================>......] - ETA: 0s - loss: 10.4811 - mean\_absolute\_error: 2.45934037/4840 [========================>.....] - ETA: 0s - loss: 10.4818 - mean\_absolute\_error: 2.45934095/4840 [========================>.....] - ETA: 0s - loss: 10.4914 - mean\_absolute\_error: 2.46064153/4840 [========================>.....] - ETA: 0s - loss: 10.4880 - mean\_absolute\_error: 2.46014212/4840 [=========================>....] - ETA: 0s - loss: 10.4932 - mean\_absolute\_error: 2.46034272/4840 [=========================>....] - ETA: 0s - loss: 10.4957 - mean\_absolute\_error: 2.46084332/4840 [=========================>....] - ETA: 0s - loss: 10.4960 - mean\_absolute\_error: 2.46064392/4840 [==========================>...] - ETA: 0s - loss: 10.5008 - mean\_absolute\_error: 2.46114450/4840 [==========================>...] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46144508/4840 [==========================>...] - ETA: 0s - loss: 10.5009 - mean\_absolute\_error: 2.46104567/4840 [===========================>..] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46134626/4840 [===========================>..] - ETA: 0s - loss: 10.4977 - mean\_absolute\_error: 2.46124685/4840 [============================>.] - ETA: 0s - loss: 10.4980 - mean\_absolute\_error: 2.46144743/4840 [============================>.] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46164802/4840 [============================>.] - ETA: 0s - loss: 10.4991 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 904us/step - loss: 10.5029 - mean\_absolute\_error: 2.4617 - val\_loss: 11.4881 - val\_mean\_absolute\_error: 2.5800  
Epoch 70/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.1136 - mean\_absolute\_error: 2.4363 61/4840 [..............................] - ETA: 3s - loss: 10.1896 - mean\_absolute\_error: 2.4100 119/4840 [..............................] - ETA: 4s - loss: 10.3471 - mean\_absolute\_error: 2.4488 178/4840 [>.............................] - ETA: 3s - loss: 10.3477 - mean\_absolute\_error: 2.4512 237/4840 [>.............................] - ETA: 3s - loss: 10.4427 - mean\_absolute\_error: 2.4563 297/4840 [>.............................] - ETA: 3s - loss: 10.4895 - mean\_absolute\_error: 2.4587 356/4840 [=>............................] - ETA: 3s - loss: 10.4571 - mean\_absolute\_error: 2.4554 416/4840 [=>............................] - ETA: 3s - loss: 10.4139 - mean\_absolute\_error: 2.4481 475/4840 [=>............................] - ETA: 3s - loss: 10.4343 - mean\_absolute\_error: 2.4497 533/4840 [==>...........................] - ETA: 3s - loss: 10.3856 - mean\_absolute\_error: 2.4467 591/4840 [==>...........................] - ETA: 3s - loss: 10.3343 - mean\_absolute\_error: 2.4400 650/4840 [===>..........................] - ETA: 3s - loss: 10.3994 - mean\_absolute\_error: 2.4497 710/4840 [===>..........................] - ETA: 3s - loss: 10.3786 - mean\_absolute\_error: 2.4476 770/4840 [===>..........................] - ETA: 3s - loss: 10.3894 - mean\_absolute\_error: 2.4480 830/4840 [====>.........................] - ETA: 3s - loss: 10.4393 - mean\_absolute\_error: 2.4547 889/4840 [====>.........................] - ETA: 3s - loss: 10.4676 - mean\_absolute\_error: 2.4578 946/4840 [====>.........................] - ETA: 3s - loss: 10.4715 - mean\_absolute\_error: 2.45791001/4840 [=====>........................] - ETA: 3s - loss: 10.4516 - mean\_absolute\_error: 2.45411059/4840 [=====>........................] - ETA: 3s - loss: 10.4557 - mean\_absolute\_error: 2.45381118/4840 [=====>........................] - ETA: 3s - loss: 10.4654 - mean\_absolute\_error: 2.45571177/4840 [======>.......................] - ETA: 3s - loss: 10.4614 - mean\_absolute\_error: 2.45691236/4840 [======>.......................] - ETA: 3s - loss: 10.4420 - mean\_absolute\_error: 2.45411292/4840 [=======>......................] - ETA: 3s - loss: 10.4393 - mean\_absolute\_error: 2.45351350/4840 [=======>......................] - ETA: 2s - loss: 10.4283 - mean\_absolute\_error: 2.45051408/4840 [=======>......................] - ETA: 2s - loss: 10.4395 - mean\_absolute\_error: 2.45211468/4840 [========>.....................] - ETA: 2s - loss: 10.4138 - mean\_absolute\_error: 2.44851528/4840 [========>.....................] - ETA: 2s - loss: 10.4129 - mean\_absolute\_error: 2.44821588/4840 [========>.....................] - ETA: 2s - loss: 10.3952 - mean\_absolute\_error: 2.44541648/4840 [=========>....................] - ETA: 2s - loss: 10.3978 - mean\_absolute\_error: 2.44621706/4840 [=========>....................] - ETA: 2s - loss: 10.3905 - mean\_absolute\_error: 2.44571764/4840 [=========>....................] - ETA: 2s - loss: 10.3917 - mean\_absolute\_error: 2.44611822/4840 [==========>...................] - ETA: 2s - loss: 10.4069 - mean\_absolute\_error: 2.44891881/4840 [==========>...................] - ETA: 2s - loss: 10.4177 - mean\_absolute\_error: 2.45011941/4840 [===========>..................] - ETA: 2s - loss: 10.4297 - mean\_absolute\_error: 2.45212001/4840 [===========>..................] - ETA: 2s - loss: 10.4416 - mean\_absolute\_error: 2.45402061/4840 [===========>..................] - ETA: 2s - loss: 10.4544 - mean\_absolute\_error: 2.45632119/4840 [============>.................] - ETA: 2s - loss: 10.4522 - mean\_absolute\_error: 2.45662177/4840 [============>.................] - ETA: 2s - loss: 10.4581 - mean\_absolute\_error: 2.45732235/4840 [============>.................] - ETA: 2s - loss: 10.4476 - mean\_absolute\_error: 2.45562295/4840 [=============>................] - ETA: 2s - loss: 10.4403 - mean\_absolute\_error: 2.45452354/4840 [=============>................] - ETA: 2s - loss: 10.4684 - mean\_absolute\_error: 2.45842414/4840 [=============>................] - ETA: 2s - loss: 10.4586 - mean\_absolute\_error: 2.45712470/4840 [==============>...............] - ETA: 2s - loss: 10.4608 - mean\_absolute\_error: 2.45682528/4840 [==============>...............] - ETA: 1s - loss: 10.4593 - mean\_absolute\_error: 2.45642587/4840 [===============>..............] - ETA: 1s - loss: 10.4627 - mean\_absolute\_error: 2.45642647/4840 [===============>..............] - ETA: 1s - loss: 10.4591 - mean\_absolute\_error: 2.45602706/4840 [===============>..............] - ETA: 1s - loss: 10.4448 - mean\_absolute\_error: 2.45422766/4840 [================>.............] - ETA: 1s - loss: 10.4553 - mean\_absolute\_error: 2.45492825/4840 [================>.............] - ETA: 1s - loss: 10.4586 - mean\_absolute\_error: 2.45522883/4840 [================>.............] - ETA: 1s - loss: 10.4695 - mean\_absolute\_error: 2.45652941/4840 [=================>............] - ETA: 1s - loss: 10.4830 - mean\_absolute\_error: 2.45813000/4840 [=================>............] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46003059/4840 [=================>............] - ETA: 1s - loss: 10.4868 - mean\_absolute\_error: 2.45893119/4840 [==================>...........] - ETA: 1s - loss: 10.4975 - mean\_absolute\_error: 2.46013174/4840 [==================>...........] - ETA: 1s - loss: 10.4896 - mean\_absolute\_error: 2.45933198/4840 [==================>...........] - ETA: 1s - loss: 10.4858 - mean\_absolute\_error: 2.45873222/4840 [==================>...........] - ETA: 1s - loss: 10.4894 - mean\_absolute\_error: 2.45963254/4840 [===================>..........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.45923278/4840 [===================>..........] - ETA: 1s - loss: 10.4895 - mean\_absolute\_error: 2.45933309/4840 [===================>..........] - ETA: 1s - loss: 10.4897 - mean\_absolute\_error: 2.45923341/4840 [===================>..........] - ETA: 1s - loss: 10.4911 - mean\_absolute\_error: 2.45933373/4840 [===================>..........] - ETA: 1s - loss: 10.4925 - mean\_absolute\_error: 2.45923403/4840 [====================>.........] - ETA: 1s - loss: 10.4912 - mean\_absolute\_error: 2.45913434/4840 [====================>.........] - ETA: 1s - loss: 10.4929 - mean\_absolute\_error: 2.45953463/4840 [====================>.........] - ETA: 1s - loss: 10.4878 - mean\_absolute\_error: 2.45883493/4840 [====================>.........] - ETA: 1s - loss: 10.4914 - mean\_absolute\_error: 2.45943523/4840 [====================>.........] - ETA: 1s - loss: 10.4901 - mean\_absolute\_error: 2.45923552/4840 [=====================>........] - ETA: 1s - loss: 10.4909 - mean\_absolute\_error: 2.45933582/4840 [=====================>........] - ETA: 1s - loss: 10.4893 - mean\_absolute\_error: 2.45923610/4840 [=====================>........] - ETA: 1s - loss: 10.4890 - mean\_absolute\_error: 2.45913640/4840 [=====================>........] - ETA: 1s - loss: 10.4853 - mean\_absolute\_error: 2.45843667/4840 [=====================>........] - ETA: 1s - loss: 10.4831 - mean\_absolute\_error: 2.45823696/4840 [=====================>........] - ETA: 1s - loss: 10.4791 - mean\_absolute\_error: 2.45773728/4840 [======================>.......] - ETA: 1s - loss: 10.4848 - mean\_absolute\_error: 2.45873757/4840 [======================>.......] - ETA: 1s - loss: 10.4821 - mean\_absolute\_error: 2.45823786/4840 [======================>.......] - ETA: 1s - loss: 10.4811 - mean\_absolute\_error: 2.45813831/4840 [======================>.......] - ETA: 1s - loss: 10.4838 - mean\_absolute\_error: 2.45873883/4840 [=======================>......] - ETA: 0s - loss: 10.4848 - mean\_absolute\_error: 2.45863931/4840 [=======================>......] - ETA: 0s - loss: 10.4827 - mean\_absolute\_error: 2.45823979/4840 [=======================>......] - ETA: 0s - loss: 10.4855 - mean\_absolute\_error: 2.45834030/4840 [=======================>......] - ETA: 0s - loss: 10.4828 - mean\_absolute\_error: 2.45774076/4840 [========================>.....] - ETA: 0s - loss: 10.4804 - mean\_absolute\_error: 2.45764126/4840 [========================>.....] - ETA: 0s - loss: 10.4865 - mean\_absolute\_error: 2.45844176/4840 [========================>.....] - ETA: 0s - loss: 10.4860 - mean\_absolute\_error: 2.45844200/4840 [=========================>....] - ETA: 0s - loss: 10.4888 - mean\_absolute\_error: 2.45864226/4840 [=========================>....] - ETA: 0s - loss: 10.4853 - mean\_absolute\_error: 2.45844253/4840 [=========================>....] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45814279/4840 [=========================>....] - ETA: 0s - loss: 10.4855 - mean\_absolute\_error: 2.45864320/4840 [=========================>....] - ETA: 0s - loss: 10.4880 - mean\_absolute\_error: 2.45914368/4840 [==========================>...] - ETA: 0s - loss: 10.4883 - mean\_absolute\_error: 2.45914423/4840 [==========================>...] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46024479/4840 [==========================>...] - ETA: 0s - loss: 10.4919 - mean\_absolute\_error: 2.46014538/4840 [===========================>..] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46024593/4840 [===========================>..] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46054639/4840 [===========================>..] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46124681/4840 [============================>.] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46074732/4840 [============================>.] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46094786/4840 [============================>.] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46084837/4840 [============================>.] - ETA: 0s - loss: 10.5016 - mean\_absolute\_error: 2.46114840/4840 [==============================] - 5s 1ms/step - loss: 10.5026 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4909 - val\_mean\_absolute\_error: 2.5809  
Epoch 71/100  
 1/4840 [..............................] - ETA: 4s - loss: 7.3354 - mean\_absolute\_error: 2.0982 59/4840 [..............................] - ETA: 4s - loss: 10.7073 - mean\_absolute\_error: 2.5027 118/4840 [..............................] - ETA: 4s - loss: 10.6148 - mean\_absolute\_error: 2.4747 176/4840 [>.............................] - ETA: 4s - loss: 10.6056 - mean\_absolute\_error: 2.4772 235/4840 [>.............................] - ETA: 3s - loss: 10.4160 - mean\_absolute\_error: 2.4581 295/4840 [>.............................] - ETA: 3s - loss: 10.3331 - mean\_absolute\_error: 2.4464 350/4840 [=>............................] - ETA: 3s - loss: 10.3884 - mean\_absolute\_error: 2.4536 399/4840 [=>............................] - ETA: 3s - loss: 10.4259 - mean\_absolute\_error: 2.4599 458/4840 [=>............................] - ETA: 3s - loss: 10.4189 - mean\_absolute\_error: 2.4565 516/4840 [==>...........................] - ETA: 3s - loss: 10.4555 - mean\_absolute\_error: 2.4608 576/4840 [==>...........................] - ETA: 3s - loss: 10.4459 - mean\_absolute\_error: 2.4549 635/4840 [==>...........................] - ETA: 3s - loss: 10.4506 - mean\_absolute\_error: 2.4534 694/4840 [===>..........................] - ETA: 3s - loss: 10.4423 - mean\_absolute\_error: 2.4520 752/4840 [===>..........................] - ETA: 3s - loss: 10.4522 - mean\_absolute\_error: 2.4524 811/4840 [====>.........................] - ETA: 3s - loss: 10.4698 - mean\_absolute\_error: 2.4560 870/4840 [====>.........................] - ETA: 3s - loss: 10.4997 - mean\_absolute\_error: 2.4585 928/4840 [====>.........................] - ETA: 3s - loss: 10.4808 - mean\_absolute\_error: 2.4555 987/4840 [=====>........................] - ETA: 3s - loss: 10.4871 - mean\_absolute\_error: 2.45551046/4840 [=====>........................] - ETA: 3s - loss: 10.4837 - mean\_absolute\_error: 2.45571098/4840 [=====>........................] - ETA: 3s - loss: 10.4795 - mean\_absolute\_error: 2.45461155/4840 [======>.......................] - ETA: 3s - loss: 10.5016 - mean\_absolute\_error: 2.45741213/4840 [======>.......................] - ETA: 3s - loss: 10.4988 - mean\_absolute\_error: 2.45781270/4840 [======>.......................] - ETA: 3s - loss: 10.5136 - mean\_absolute\_error: 2.45931329/4840 [=======>......................] - ETA: 3s - loss: 10.5089 - mean\_absolute\_error: 2.45951389/4840 [=======>......................] - ETA: 2s - loss: 10.5216 - mean\_absolute\_error: 2.46121446/4840 [=======>......................] - ETA: 2s - loss: 10.5228 - mean\_absolute\_error: 2.46121503/4840 [========>.....................] - ETA: 2s - loss: 10.5075 - mean\_absolute\_error: 2.45871562/4840 [========>.....................] - ETA: 2s - loss: 10.4922 - mean\_absolute\_error: 2.45791620/4840 [=========>....................] - ETA: 2s - loss: 10.5128 - mean\_absolute\_error: 2.46041676/4840 [=========>....................] - ETA: 2s - loss: 10.5013 - mean\_absolute\_error: 2.45941734/4840 [=========>....................] - ETA: 2s - loss: 10.5216 - mean\_absolute\_error: 2.46261791/4840 [==========>...................] - ETA: 2s - loss: 10.5130 - mean\_absolute\_error: 2.46111848/4840 [==========>...................] - ETA: 2s - loss: 10.5079 - mean\_absolute\_error: 2.46111903/4840 [==========>...................] - ETA: 2s - loss: 10.5250 - mean\_absolute\_error: 2.46321961/4840 [===========>..................] - ETA: 2s - loss: 10.5282 - mean\_absolute\_error: 2.46412020/4840 [===========>..................] - ETA: 2s - loss: 10.5329 - mean\_absolute\_error: 2.46432079/4840 [===========>..................] - ETA: 2s - loss: 10.5252 - mean\_absolute\_error: 2.46302136/4840 [============>.................] - ETA: 2s - loss: 10.5312 - mean\_absolute\_error: 2.46482196/4840 [============>.................] - ETA: 2s - loss: 10.5328 - mean\_absolute\_error: 2.46502252/4840 [============>.................] - ETA: 2s - loss: 10.5307 - mean\_absolute\_error: 2.46502308/4840 [=============>................] - ETA: 2s - loss: 10.5312 - mean\_absolute\_error: 2.46542366/4840 [=============>................] - ETA: 2s - loss: 10.5287 - mean\_absolute\_error: 2.46522424/4840 [==============>...............] - ETA: 2s - loss: 10.5229 - mean\_absolute\_error: 2.46412483/4840 [==============>...............] - ETA: 2s - loss: 10.5188 - mean\_absolute\_error: 2.46342541/4840 [==============>...............] - ETA: 2s - loss: 10.5222 - mean\_absolute\_error: 2.46432599/4840 [===============>..............] - ETA: 1s - loss: 10.5087 - mean\_absolute\_error: 2.46232658/4840 [===============>..............] - ETA: 1s - loss: 10.5140 - mean\_absolute\_error: 2.46262717/4840 [===============>..............] - ETA: 1s - loss: 10.5109 - mean\_absolute\_error: 2.46262777/4840 [================>.............] - ETA: 1s - loss: 10.4974 - mean\_absolute\_error: 2.46082834/4840 [================>.............] - ETA: 1s - loss: 10.5011 - mean\_absolute\_error: 2.46152893/4840 [================>.............] - ETA: 1s - loss: 10.4984 - mean\_absolute\_error: 2.46102948/4840 [=================>............] - ETA: 1s - loss: 10.5006 - mean\_absolute\_error: 2.46153008/4840 [=================>............] - ETA: 1s - loss: 10.4925 - mean\_absolute\_error: 2.46053067/4840 [==================>...........] - ETA: 1s - loss: 10.4943 - mean\_absolute\_error: 2.46073123/4840 [==================>...........] - ETA: 1s - loss: 10.4973 - mean\_absolute\_error: 2.46123182/4840 [==================>...........] - ETA: 1s - loss: 10.5046 - mean\_absolute\_error: 2.46263240/4840 [===================>..........] - ETA: 1s - loss: 10.5048 - mean\_absolute\_error: 2.46293295/4840 [===================>..........] - ETA: 1s - loss: 10.5106 - mean\_absolute\_error: 2.46363352/4840 [===================>..........] - ETA: 1s - loss: 10.5189 - mean\_absolute\_error: 2.46493409/4840 [====================>.........] - ETA: 1s - loss: 10.5178 - mean\_absolute\_error: 2.46453466/4840 [====================>.........] - ETA: 1s - loss: 10.5205 - mean\_absolute\_error: 2.46503523/4840 [====================>.........] - ETA: 1s - loss: 10.5162 - mean\_absolute\_error: 2.46423582/4840 [=====================>........] - ETA: 1s - loss: 10.5203 - mean\_absolute\_error: 2.46483640/4840 [=====================>........] - ETA: 1s - loss: 10.5233 - mean\_absolute\_error: 2.46553699/4840 [=====================>........] - ETA: 0s - loss: 10.5279 - mean\_absolute\_error: 2.46643758/4840 [======================>.......] - ETA: 0s - loss: 10.5327 - mean\_absolute\_error: 2.46703818/4840 [======================>.......] - ETA: 0s - loss: 10.5224 - mean\_absolute\_error: 2.46553878/4840 [=======================>......] - ETA: 0s - loss: 10.5186 - mean\_absolute\_error: 2.46443938/4840 [=======================>......] - ETA: 0s - loss: 10.5185 - mean\_absolute\_error: 2.46433994/4840 [=======================>......] - ETA: 0s - loss: 10.5174 - mean\_absolute\_error: 2.46414052/4840 [========================>.....] - ETA: 0s - loss: 10.5173 - mean\_absolute\_error: 2.46404111/4840 [========================>.....] - ETA: 0s - loss: 10.5209 - mean\_absolute\_error: 2.46444169/4840 [========================>.....] - ETA: 0s - loss: 10.5172 - mean\_absolute\_error: 2.46394225/4840 [=========================>....] - ETA: 0s - loss: 10.5268 - mean\_absolute\_error: 2.46524283/4840 [=========================>....] - ETA: 0s - loss: 10.5148 - mean\_absolute\_error: 2.46364343/4840 [=========================>....] - ETA: 0s - loss: 10.5219 - mean\_absolute\_error: 2.46464403/4840 [==========================>...] - ETA: 0s - loss: 10.5182 - mean\_absolute\_error: 2.46414463/4840 [==========================>...] - ETA: 0s - loss: 10.5189 - mean\_absolute\_error: 2.46414517/4840 [==========================>...] - ETA: 0s - loss: 10.5194 - mean\_absolute\_error: 2.46414575/4840 [===========================>..] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46284631/4840 [===========================>..] - ETA: 0s - loss: 10.5095 - mean\_absolute\_error: 2.46294689/4840 [============================>.] - ETA: 0s - loss: 10.5052 - mean\_absolute\_error: 2.46244749/4840 [============================>.] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.46154808/4840 [============================>.] - ETA: 0s - loss: 10.5030 - mean\_absolute\_error: 2.46254840/4840 [==============================] - 4s 917us/step - loss: 10.5026 - mean\_absolute\_error: 2.4623 - val\_loss: 11.4902 - val\_mean\_absolute\_error: 2.5807  
Epoch 72/100  
 1/4840 [..............................] - ETA: 4s - loss: 12.2070 - mean\_absolute\_error: 2.8490 59/4840 [..............................] - ETA: 4s - loss: 11.0236 - mean\_absolute\_error: 2.5554 118/4840 [..............................] - ETA: 4s - loss: 10.6163 - mean\_absolute\_error: 2.4920 176/4840 [>.............................] - ETA: 4s - loss: 10.5515 - mean\_absolute\_error: 2.4812 236/4840 [>.............................] - ETA: 3s - loss: 10.5301 - mean\_absolute\_error: 2.4835 295/4840 [>.............................] - ETA: 3s - loss: 10.5316 - mean\_absolute\_error: 2.4763 356/4840 [=>............................] - ETA: 3s - loss: 10.4796 - mean\_absolute\_error: 2.4682 415/4840 [=>............................] - ETA: 3s - loss: 10.3410 - mean\_absolute\_error: 2.4514 476/4840 [=>............................] - ETA: 3s - loss: 10.3726 - mean\_absolute\_error: 2.4547 536/4840 [==>...........................] - ETA: 3s - loss: 10.3261 - mean\_absolute\_error: 2.4457 591/4840 [==>...........................] - ETA: 3s - loss: 10.3226 - mean\_absolute\_error: 2.4457 644/4840 [==>...........................] - ETA: 3s - loss: 10.3581 - mean\_absolute\_error: 2.4496 702/4840 [===>..........................] - ETA: 3s - loss: 10.3519 - mean\_absolute\_error: 2.4470 760/4840 [===>..........................] - ETA: 3s - loss: 10.3458 - mean\_absolute\_error: 2.4457 818/4840 [====>.........................] - ETA: 3s - loss: 10.3179 - mean\_absolute\_error: 2.4430 877/4840 [====>.........................] - ETA: 3s - loss: 10.3221 - mean\_absolute\_error: 2.4418 936/4840 [====>.........................] - ETA: 3s - loss: 10.3409 - mean\_absolute\_error: 2.4456 995/4840 [=====>........................] - ETA: 3s - loss: 10.3748 - mean\_absolute\_error: 2.44661053/4840 [=====>........................] - ETA: 3s - loss: 10.3608 - mean\_absolute\_error: 2.44501112/4840 [=====>........................] - ETA: 3s - loss: 10.3654 - mean\_absolute\_error: 2.44551172/4840 [======>.......................] - ETA: 3s - loss: 10.3454 - mean\_absolute\_error: 2.44221230/4840 [======>.......................] - ETA: 3s - loss: 10.3306 - mean\_absolute\_error: 2.43861288/4840 [======>.......................] - ETA: 3s - loss: 10.3665 - mean\_absolute\_error: 2.44331348/4840 [=======>......................] - ETA: 3s - loss: 10.3858 - mean\_absolute\_error: 2.44571405/4840 [=======>......................] - ETA: 2s - loss: 10.4002 - mean\_absolute\_error: 2.44721464/4840 [========>.....................] - ETA: 2s - loss: 10.3831 - mean\_absolute\_error: 2.44451521/4840 [========>.....................] - ETA: 2s - loss: 10.4022 - mean\_absolute\_error: 2.44701580/4840 [========>.....................] - ETA: 2s - loss: 10.3881 - mean\_absolute\_error: 2.44551639/4840 [=========>....................] - ETA: 2s - loss: 10.3768 - mean\_absolute\_error: 2.44481699/4840 [=========>....................] - ETA: 2s - loss: 10.4021 - mean\_absolute\_error: 2.44781754/4840 [=========>....................] - ETA: 2s - loss: 10.4265 - mean\_absolute\_error: 2.45001812/4840 [==========>...................] - ETA: 2s - loss: 10.4196 - mean\_absolute\_error: 2.44951869/4840 [==========>...................] - ETA: 2s - loss: 10.4232 - mean\_absolute\_error: 2.45011928/4840 [==========>...................] - ETA: 2s - loss: 10.4245 - mean\_absolute\_error: 2.45011988/4840 [===========>..................] - ETA: 2s - loss: 10.4182 - mean\_absolute\_error: 2.44832048/4840 [===========>..................] - ETA: 2s - loss: 10.3986 - mean\_absolute\_error: 2.44652107/4840 [============>.................] - ETA: 2s - loss: 10.3895 - mean\_absolute\_error: 2.44572166/4840 [============>.................] - ETA: 2s - loss: 10.3951 - mean\_absolute\_error: 2.44602225/4840 [============>.................] - ETA: 2s - loss: 10.3965 - mean\_absolute\_error: 2.44632285/4840 [=============>................] - ETA: 2s - loss: 10.4042 - mean\_absolute\_error: 2.44702344/4840 [=============>................] - ETA: 2s - loss: 10.4206 - mean\_absolute\_error: 2.44882403/4840 [=============>................] - ETA: 2s - loss: 10.4117 - mean\_absolute\_error: 2.44802460/4840 [==============>...............] - ETA: 2s - loss: 10.4078 - mean\_absolute\_error: 2.44762513/4840 [==============>...............] - ETA: 2s - loss: 10.4036 - mean\_absolute\_error: 2.44682570/4840 [==============>...............] - ETA: 1s - loss: 10.4090 - mean\_absolute\_error: 2.44772628/4840 [===============>..............] - ETA: 1s - loss: 10.4134 - mean\_absolute\_error: 2.44882685/4840 [===============>..............] - ETA: 1s - loss: 10.4138 - mean\_absolute\_error: 2.44822744/4840 [================>.............] - ETA: 1s - loss: 10.4125 - mean\_absolute\_error: 2.44792803/4840 [================>.............] - ETA: 1s - loss: 10.4141 - mean\_absolute\_error: 2.44842857/4840 [================>.............] - ETA: 1s - loss: 10.4176 - mean\_absolute\_error: 2.44882890/4840 [================>.............] - ETA: 1s - loss: 10.4206 - mean\_absolute\_error: 2.44882933/4840 [=================>............] - ETA: 1s - loss: 10.4201 - mean\_absolute\_error: 2.44922991/4840 [=================>............] - ETA: 1s - loss: 10.4215 - mean\_absolute\_error: 2.44933049/4840 [=================>............] - ETA: 1s - loss: 10.4371 - mean\_absolute\_error: 2.45133106/4840 [==================>...........] - ETA: 1s - loss: 10.4391 - mean\_absolute\_error: 2.45153165/4840 [==================>...........] - ETA: 1s - loss: 10.4424 - mean\_absolute\_error: 2.45243223/4840 [==================>...........] - ETA: 1s - loss: 10.4480 - mean\_absolute\_error: 2.45353282/4840 [===================>..........] - ETA: 1s - loss: 10.4456 - mean\_absolute\_error: 2.45293341/4840 [===================>..........] - ETA: 1s - loss: 10.4560 - mean\_absolute\_error: 2.45423401/4840 [====================>.........] - ETA: 1s - loss: 10.4549 - mean\_absolute\_error: 2.45383459/4840 [====================>.........] - ETA: 1s - loss: 10.4562 - mean\_absolute\_error: 2.45433517/4840 [====================>.........] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45473571/4840 [=====================>........] - ETA: 1s - loss: 10.4503 - mean\_absolute\_error: 2.45383601/4840 [=====================>........] - ETA: 1s - loss: 10.4526 - mean\_absolute\_error: 2.45433647/4840 [=====================>........] - ETA: 1s - loss: 10.4583 - mean\_absolute\_error: 2.45493703/4840 [=====================>........] - ETA: 1s - loss: 10.4584 - mean\_absolute\_error: 2.45523761/4840 [======================>.......] - ETA: 0s - loss: 10.4703 - mean\_absolute\_error: 2.45683819/4840 [======================>.......] - ETA: 0s - loss: 10.4702 - mean\_absolute\_error: 2.45703877/4840 [=======================>......] - ETA: 0s - loss: 10.4716 - mean\_absolute\_error: 2.45723935/4840 [=======================>......] - ETA: 0s - loss: 10.4664 - mean\_absolute\_error: 2.45653992/4840 [=======================>......] - ETA: 0s - loss: 10.4707 - mean\_absolute\_error: 2.45744049/4840 [========================>.....] - ETA: 0s - loss: 10.4790 - mean\_absolute\_error: 2.45864108/4840 [========================>.....] - ETA: 0s - loss: 10.4730 - mean\_absolute\_error: 2.45784167/4840 [========================>.....] - ETA: 0s - loss: 10.4717 - mean\_absolute\_error: 2.45764226/4840 [=========================>....] - ETA: 0s - loss: 10.4715 - mean\_absolute\_error: 2.45784285/4840 [=========================>....] - ETA: 0s - loss: 10.4826 - mean\_absolute\_error: 2.45934325/4840 [=========================>....] - ETA: 0s - loss: 10.4864 - mean\_absolute\_error: 2.45974371/4840 [==========================>...] - ETA: 0s - loss: 10.4952 - mean\_absolute\_error: 2.46084429/4840 [==========================>...] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46104488/4840 [==========================>...] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46104546/4840 [===========================>..] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46094604/4840 [===========================>..] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46124663/4840 [===========================>..] - ETA: 0s - loss: 10.4984 - mean\_absolute\_error: 2.46074722/4840 [============================>.] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46144779/4840 [============================>.] - ETA: 0s - loss: 10.5024 - mean\_absolute\_error: 2.46104836/4840 [============================>.] - ETA: 0s - loss: 10.5036 - mean\_absolute\_error: 2.46144840/4840 [==============================] - 4s 927us/step - loss: 10.5035 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4905 - val\_mean\_absolute\_error: 2.5804  
Epoch 73/100  
 1/4840 [..............................] - ETA: 9s - loss: 6.6235 - mean\_absolute\_error: 1.9477 59/4840 [..............................] - ETA: 4s - loss: 10.1414 - mean\_absolute\_error: 2.4212 118/4840 [..............................] - ETA: 4s - loss: 10.1971 - mean\_absolute\_error: 2.4111 174/4840 [>.............................] - ETA: 4s - loss: 10.2946 - mean\_absolute\_error: 2.4296 233/4840 [>.............................] - ETA: 4s - loss: 10.2854 - mean\_absolute\_error: 2.4252 293/4840 [>.............................] - ETA: 3s - loss: 10.2597 - mean\_absolute\_error: 2.4230 354/4840 [=>............................] - ETA: 3s - loss: 10.2447 - mean\_absolute\_error: 2.4239 415/4840 [=>............................] - ETA: 3s - loss: 10.2788 - mean\_absolute\_error: 2.4320 476/4840 [=>............................] - ETA: 3s - loss: 10.3124 - mean\_absolute\_error: 2.4395 535/4840 [==>...........................] - ETA: 3s - loss: 10.1921 - mean\_absolute\_error: 2.4239 594/4840 [==>...........................] - ETA: 3s - loss: 10.2412 - mean\_absolute\_error: 2.4292 653/4840 [===>..........................] - ETA: 3s - loss: 10.2317 - mean\_absolute\_error: 2.4269 714/4840 [===>..........................] - ETA: 3s - loss: 10.2669 - mean\_absolute\_error: 2.4306 770/4840 [===>..........................] - ETA: 3s - loss: 10.2715 - mean\_absolute\_error: 2.4309 827/4840 [====>.........................] - ETA: 3s - loss: 10.2683 - mean\_absolute\_error: 2.4311 883/4840 [====>.........................] - ETA: 3s - loss: 10.3275 - mean\_absolute\_error: 2.4397 942/4840 [====>.........................] - ETA: 3s - loss: 10.3253 - mean\_absolute\_error: 2.43961003/4840 [=====>........................] - ETA: 3s - loss: 10.3219 - mean\_absolute\_error: 2.43921062/4840 [=====>........................] - ETA: 3s - loss: 10.2988 - mean\_absolute\_error: 2.43641121/4840 [=====>........................] - ETA: 3s - loss: 10.2724 - mean\_absolute\_error: 2.43131177/4840 [======>.......................] - ETA: 3s - loss: 10.2925 - mean\_absolute\_error: 2.43391237/4840 [======>.......................] - ETA: 3s - loss: 10.3158 - mean\_absolute\_error: 2.43701298/4840 [=======>......................] - ETA: 3s - loss: 10.3179 - mean\_absolute\_error: 2.43721355/4840 [=======>......................] - ETA: 2s - loss: 10.3459 - mean\_absolute\_error: 2.43971415/4840 [=======>......................] - ETA: 2s - loss: 10.3391 - mean\_absolute\_error: 2.43881474/4840 [========>.....................] - ETA: 2s - loss: 10.3315 - mean\_absolute\_error: 2.43771534/4840 [========>.....................] - ETA: 2s - loss: 10.3288 - mean\_absolute\_error: 2.43751594/4840 [========>.....................] - ETA: 2s - loss: 10.3485 - mean\_absolute\_error: 2.43931653/4840 [=========>....................] - ETA: 2s - loss: 10.3614 - mean\_absolute\_error: 2.44121713/4840 [=========>....................] - ETA: 2s - loss: 10.3750 - mean\_absolute\_error: 2.44371774/4840 [=========>....................] - ETA: 2s - loss: 10.3918 - mean\_absolute\_error: 2.44621834/4840 [==========>...................] - ETA: 2s - loss: 10.4142 - mean\_absolute\_error: 2.44941892/4840 [==========>...................] - ETA: 2s - loss: 10.4018 - mean\_absolute\_error: 2.44861950/4840 [===========>..................] - ETA: 2s - loss: 10.4123 - mean\_absolute\_error: 2.44902009/4840 [===========>..................] - ETA: 2s - loss: 10.4195 - mean\_absolute\_error: 2.45062068/4840 [===========>..................] - ETA: 2s - loss: 10.4065 - mean\_absolute\_error: 2.44812126/4840 [============>.................] - ETA: 2s - loss: 10.4088 - mean\_absolute\_error: 2.44832186/4840 [============>.................] - ETA: 2s - loss: 10.4060 - mean\_absolute\_error: 2.44802246/4840 [============>.................] - ETA: 2s - loss: 10.4056 - mean\_absolute\_error: 2.44732305/4840 [=============>................] - ETA: 2s - loss: 10.4035 - mean\_absolute\_error: 2.44712363/4840 [=============>................] - ETA: 2s - loss: 10.3994 - mean\_absolute\_error: 2.44602421/4840 [==============>...............] - ETA: 2s - loss: 10.3949 - mean\_absolute\_error: 2.44522481/4840 [==============>...............] - ETA: 2s - loss: 10.4107 - mean\_absolute\_error: 2.44772540/4840 [==============>...............] - ETA: 1s - loss: 10.4217 - mean\_absolute\_error: 2.44942599/4840 [===============>..............] - ETA: 1s - loss: 10.4368 - mean\_absolute\_error: 2.45172658/4840 [===============>..............] - ETA: 1s - loss: 10.4368 - mean\_absolute\_error: 2.45202716/4840 [===============>..............] - ETA: 1s - loss: 10.4351 - mean\_absolute\_error: 2.45122776/4840 [================>.............] - ETA: 1s - loss: 10.4368 - mean\_absolute\_error: 2.45202837/4840 [================>.............] - ETA: 1s - loss: 10.4450 - mean\_absolute\_error: 2.45362897/4840 [================>.............] - ETA: 1s - loss: 10.4635 - mean\_absolute\_error: 2.45592958/4840 [=================>............] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.45823017/4840 [=================>............] - ETA: 1s - loss: 10.4692 - mean\_absolute\_error: 2.45653075/4840 [==================>...........] - ETA: 1s - loss: 10.4718 - mean\_absolute\_error: 2.45673134/4840 [==================>...........] - ETA: 1s - loss: 10.4647 - mean\_absolute\_error: 2.45583192/4840 [==================>...........] - ETA: 1s - loss: 10.4648 - mean\_absolute\_error: 2.45553251/4840 [===================>..........] - ETA: 1s - loss: 10.4745 - mean\_absolute\_error: 2.45693309/4840 [===================>..........] - ETA: 1s - loss: 10.4633 - mean\_absolute\_error: 2.45583368/4840 [===================>..........] - ETA: 1s - loss: 10.4721 - mean\_absolute\_error: 2.45693428/4840 [====================>.........] - ETA: 1s - loss: 10.4826 - mean\_absolute\_error: 2.45823488/4840 [====================>.........] - ETA: 1s - loss: 10.4764 - mean\_absolute\_error: 2.45743545/4840 [====================>.........] - ETA: 1s - loss: 10.4751 - mean\_absolute\_error: 2.45733604/4840 [=====================>........] - ETA: 1s - loss: 10.4791 - mean\_absolute\_error: 2.45813664/4840 [=====================>........] - ETA: 1s - loss: 10.4805 - mean\_absolute\_error: 2.45843724/4840 [======================>.......] - ETA: 0s - loss: 10.4882 - mean\_absolute\_error: 2.45943784/4840 [======================>.......] - ETA: 0s - loss: 10.4893 - mean\_absolute\_error: 2.45953841/4840 [======================>.......] - ETA: 0s - loss: 10.4881 - mean\_absolute\_error: 2.45883897/4840 [=======================>......] - ETA: 0s - loss: 10.4909 - mean\_absolute\_error: 2.45923958/4840 [=======================>......] - ETA: 0s - loss: 10.4884 - mean\_absolute\_error: 2.45864018/4840 [=======================>......] - ETA: 0s - loss: 10.4945 - mean\_absolute\_error: 2.45974076/4840 [========================>.....] - ETA: 0s - loss: 10.5049 - mean\_absolute\_error: 2.46094135/4840 [========================>.....] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46034194/4840 [========================>.....] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46084254/4840 [=========================>....] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46044314/4840 [=========================>....] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.46034371/4840 [==========================>...] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46054429/4840 [==========================>...] - ETA: 0s - loss: 10.4972 - mean\_absolute\_error: 2.46004486/4840 [==========================>...] - ETA: 0s - loss: 10.4947 - mean\_absolute\_error: 2.45984546/4840 [===========================>..] - ETA: 0s - loss: 10.4947 - mean\_absolute\_error: 2.45984606/4840 [===========================>..] - ETA: 0s - loss: 10.4981 - mean\_absolute\_error: 2.46004665/4840 [===========================>..] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.46024721/4840 [============================>.] - ETA: 0s - loss: 10.5045 - mean\_absolute\_error: 2.46124780/4840 [============================>.] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46084839/4840 [============================>.] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46084840/4840 [==============================] - 4s 898us/step - loss: 10.5034 - mean\_absolute\_error: 2.4607 - val\_loss: 11.4923 - val\_mean\_absolute\_error: 2.5811  
Epoch 74/100  
 1/4840 [..............................] - ETA: 9s - loss: 8.7964 - mean\_absolute\_error: 2.0849 59/4840 [..............................] - ETA: 4s - loss: 10.3391 - mean\_absolute\_error: 2.4290 119/4840 [..............................] - ETA: 4s - loss: 10.2808 - mean\_absolute\_error: 2.4326 179/4840 [>.............................] - ETA: 3s - loss: 10.3328 - mean\_absolute\_error: 2.4430 239/4840 [>.............................] - ETA: 3s - loss: 10.3610 - mean\_absolute\_error: 2.4446 299/4840 [>.............................] - ETA: 3s - loss: 10.3932 - mean\_absolute\_error: 2.4516 358/4840 [=>............................] - ETA: 3s - loss: 10.3629 - mean\_absolute\_error: 2.4468 416/4840 [=>............................] - ETA: 3s - loss: 10.3257 - mean\_absolute\_error: 2.4417 472/4840 [=>............................] - ETA: 3s - loss: 10.3111 - mean\_absolute\_error: 2.4356 531/4840 [==>...........................] - ETA: 3s - loss: 10.3116 - mean\_absolute\_error: 2.4346 590/4840 [==>...........................] - ETA: 3s - loss: 10.3269 - mean\_absolute\_error: 2.4371 650/4840 [===>..........................] - ETA: 3s - loss: 10.3159 - mean\_absolute\_error: 2.4340 710/4840 [===>..........................] - ETA: 3s - loss: 10.3182 - mean\_absolute\_error: 2.4353 768/4840 [===>..........................] - ETA: 3s - loss: 10.3063 - mean\_absolute\_error: 2.4349 829/4840 [====>.........................] - ETA: 3s - loss: 10.2964 - mean\_absolute\_error: 2.4334 890/4840 [====>.........................] - ETA: 3s - loss: 10.2680 - mean\_absolute\_error: 2.4294 950/4840 [====>.........................] - ETA: 3s - loss: 10.2653 - mean\_absolute\_error: 2.43081011/4840 [=====>........................] - ETA: 3s - loss: 10.2818 - mean\_absolute\_error: 2.43221068/4840 [=====>........................] - ETA: 3s - loss: 10.2540 - mean\_absolute\_error: 2.42841126/4840 [=====>........................] - ETA: 3s - loss: 10.2818 - mean\_absolute\_error: 2.43181185/4840 [======>.......................] - ETA: 3s - loss: 10.2625 - mean\_absolute\_error: 2.42871245/4840 [======>.......................] - ETA: 3s - loss: 10.2721 - mean\_absolute\_error: 2.43071305/4840 [=======>......................] - ETA: 3s - loss: 10.2860 - mean\_absolute\_error: 2.43341366/4840 [=======>......................] - ETA: 2s - loss: 10.2839 - mean\_absolute\_error: 2.43371427/4840 [=======>......................] - ETA: 2s - loss: 10.2839 - mean\_absolute\_error: 2.43291486/4840 [========>.....................] - ETA: 2s - loss: 10.3002 - mean\_absolute\_error: 2.43451545/4840 [========>.....................] - ETA: 2s - loss: 10.3378 - mean\_absolute\_error: 2.43841604/4840 [========>.....................] - ETA: 2s - loss: 10.3548 - mean\_absolute\_error: 2.44131664/4840 [=========>....................] - ETA: 2s - loss: 10.3442 - mean\_absolute\_error: 2.44031725/4840 [=========>....................] - ETA: 2s - loss: 10.3595 - mean\_absolute\_error: 2.44161783/4840 [==========>...................] - ETA: 2s - loss: 10.3699 - mean\_absolute\_error: 2.44201843/4840 [==========>...................] - ETA: 2s - loss: 10.3608 - mean\_absolute\_error: 2.44071903/4840 [==========>...................] - ETA: 2s - loss: 10.3815 - mean\_absolute\_error: 2.44371962/4840 [===========>..................] - ETA: 2s - loss: 10.3757 - mean\_absolute\_error: 2.44312021/4840 [===========>..................] - ETA: 2s - loss: 10.3883 - mean\_absolute\_error: 2.44492081/4840 [===========>..................] - ETA: 2s - loss: 10.3925 - mean\_absolute\_error: 2.44682137/4840 [============>.................] - ETA: 2s - loss: 10.4003 - mean\_absolute\_error: 2.44832192/4840 [============>.................] - ETA: 2s - loss: 10.3995 - mean\_absolute\_error: 2.44802251/4840 [============>.................] - ETA: 2s - loss: 10.4090 - mean\_absolute\_error: 2.44972310/4840 [=============>................] - ETA: 2s - loss: 10.4198 - mean\_absolute\_error: 2.45172368/4840 [=============>................] - ETA: 2s - loss: 10.4234 - mean\_absolute\_error: 2.45272428/4840 [==============>...............] - ETA: 2s - loss: 10.4142 - mean\_absolute\_error: 2.45102488/4840 [==============>...............] - ETA: 2s - loss: 10.4257 - mean\_absolute\_error: 2.45212548/4840 [==============>...............] - ETA: 1s - loss: 10.4289 - mean\_absolute\_error: 2.45302608/4840 [===============>..............] - ETA: 1s - loss: 10.4415 - mean\_absolute\_error: 2.45432668/4840 [===============>..............] - ETA: 1s - loss: 10.4434 - mean\_absolute\_error: 2.45492727/4840 [===============>..............] - ETA: 1s - loss: 10.4468 - mean\_absolute\_error: 2.45552783/4840 [================>.............] - ETA: 1s - loss: 10.4567 - mean\_absolute\_error: 2.45622841/4840 [================>.............] - ETA: 1s - loss: 10.4602 - mean\_absolute\_error: 2.45682897/4840 [================>.............] - ETA: 1s - loss: 10.4557 - mean\_absolute\_error: 2.45602954/4840 [=================>............] - ETA: 1s - loss: 10.4589 - mean\_absolute\_error: 2.45683006/4840 [=================>............] - ETA: 1s - loss: 10.4518 - mean\_absolute\_error: 2.45573054/4840 [=================>............] - ETA: 1s - loss: 10.4473 - mean\_absolute\_error: 2.45493097/4840 [==================>...........] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45603147/4840 [==================>...........] - ETA: 1s - loss: 10.4697 - mean\_absolute\_error: 2.45773198/4840 [==================>...........] - ETA: 1s - loss: 10.4702 - mean\_absolute\_error: 2.45753250/4840 [===================>..........] - ETA: 1s - loss: 10.4735 - mean\_absolute\_error: 2.45793305/4840 [===================>..........] - ETA: 1s - loss: 10.4716 - mean\_absolute\_error: 2.45793364/4840 [===================>..........] - ETA: 1s - loss: 10.4832 - mean\_absolute\_error: 2.45933421/4840 [====================>.........] - ETA: 1s - loss: 10.4915 - mean\_absolute\_error: 2.46023479/4840 [====================>.........] - ETA: 1s - loss: 10.4996 - mean\_absolute\_error: 2.46173538/4840 [====================>.........] - ETA: 1s - loss: 10.4963 - mean\_absolute\_error: 2.46153595/4840 [=====================>........] - ETA: 1s - loss: 10.4942 - mean\_absolute\_error: 2.46093652/4840 [=====================>........] - ETA: 1s - loss: 10.4864 - mean\_absolute\_error: 2.45943709/4840 [=====================>........] - ETA: 0s - loss: 10.4857 - mean\_absolute\_error: 2.45903765/4840 [======================>.......] - ETA: 0s - loss: 10.4806 - mean\_absolute\_error: 2.45833825/4840 [======================>.......] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45893883/4840 [=======================>......] - ETA: 0s - loss: 10.4848 - mean\_absolute\_error: 2.45873941/4840 [=======================>......] - ETA: 0s - loss: 10.4802 - mean\_absolute\_error: 2.45844000/4840 [=======================>......] - ETA: 0s - loss: 10.4797 - mean\_absolute\_error: 2.45834060/4840 [========================>.....] - ETA: 0s - loss: 10.4716 - mean\_absolute\_error: 2.45744118/4840 [========================>.....] - ETA: 0s - loss: 10.4778 - mean\_absolute\_error: 2.45824178/4840 [========================>.....] - ETA: 0s - loss: 10.4810 - mean\_absolute\_error: 2.45854235/4840 [=========================>....] - ETA: 0s - loss: 10.4871 - mean\_absolute\_error: 2.45934294/4840 [=========================>....] - ETA: 0s - loss: 10.4933 - mean\_absolute\_error: 2.46014353/4840 [=========================>....] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.45994412/4840 [==========================>...] - ETA: 0s - loss: 10.4915 - mean\_absolute\_error: 2.45964471/4840 [==========================>...] - ETA: 0s - loss: 10.4877 - mean\_absolute\_error: 2.45894530/4840 [===========================>..] - ETA: 0s - loss: 10.4862 - mean\_absolute\_error: 2.45854583/4840 [===========================>..] - ETA: 0s - loss: 10.4993 - mean\_absolute\_error: 2.46044629/4840 [===========================>..] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46004684/4840 [============================>.] - ETA: 0s - loss: 10.5016 - mean\_absolute\_error: 2.46104744/4840 [============================>.] - ETA: 0s - loss: 10.4955 - mean\_absolute\_error: 2.46044803/4840 [============================>.] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46144840/4840 [==============================] - 4s 921us/step - loss: 10.5026 - mean\_absolute\_error: 2.4615 - val\_loss: 11.4918 - val\_mean\_absolute\_error: 2.5808  
Epoch 75/100  
 1/4840 [..............................] - ETA: 9s - loss: 5.4508 - mean\_absolute\_error: 1.6107 61/4840 [..............................] - ETA: 4s - loss: 10.5144 - mean\_absolute\_error: 2.4805 120/4840 [..............................] - ETA: 3s - loss: 10.2890 - mean\_absolute\_error: 2.4443 177/4840 [>.............................] - ETA: 3s - loss: 10.5000 - mean\_absolute\_error: 2.4668 233/4840 [>.............................] - ETA: 3s - loss: 10.4197 - mean\_absolute\_error: 2.4558 292/4840 [>.............................] - ETA: 3s - loss: 10.5207 - mean\_absolute\_error: 2.4718 352/4840 [=>............................] - ETA: 3s - loss: 10.4525 - mean\_absolute\_error: 2.4605 409/4840 [=>............................] - ETA: 3s - loss: 10.4810 - mean\_absolute\_error: 2.4614 468/4840 [=>............................] - ETA: 3s - loss: 10.5480 - mean\_absolute\_error: 2.4701 527/4840 [==>...........................] - ETA: 3s - loss: 10.5543 - mean\_absolute\_error: 2.4675 586/4840 [==>...........................] - ETA: 3s - loss: 10.5095 - mean\_absolute\_error: 2.4629 643/4840 [==>...........................] - ETA: 3s - loss: 10.5237 - mean\_absolute\_error: 2.4655 701/4840 [===>..........................] - ETA: 3s - loss: 10.5555 - mean\_absolute\_error: 2.4713 760/4840 [===>..........................] - ETA: 3s - loss: 10.5986 - mean\_absolute\_error: 2.4762 819/4840 [====>.........................] - ETA: 3s - loss: 10.5567 - mean\_absolute\_error: 2.4726 879/4840 [====>.........................] - ETA: 3s - loss: 10.5568 - mean\_absolute\_error: 2.4714 938/4840 [====>.........................] - ETA: 3s - loss: 10.5483 - mean\_absolute\_error: 2.4707 997/4840 [=====>........................] - ETA: 3s - loss: 10.5270 - mean\_absolute\_error: 2.46751056/4840 [=====>........................] - ETA: 3s - loss: 10.4980 - mean\_absolute\_error: 2.46441114/4840 [=====>........................] - ETA: 3s - loss: 10.4682 - mean\_absolute\_error: 2.46041175/4840 [======>.......................] - ETA: 3s - loss: 10.4557 - mean\_absolute\_error: 2.45881234/4840 [======>.......................] - ETA: 3s - loss: 10.4541 - mean\_absolute\_error: 2.45921294/4840 [=======>......................] - ETA: 3s - loss: 10.4463 - mean\_absolute\_error: 2.45821350/4840 [=======>......................] - ETA: 3s - loss: 10.4155 - mean\_absolute\_error: 2.45331407/4840 [=======>......................] - ETA: 2s - loss: 10.4326 - mean\_absolute\_error: 2.45561468/4840 [========>.....................] - ETA: 2s - loss: 10.4129 - mean\_absolute\_error: 2.45371527/4840 [========>.....................] - ETA: 2s - loss: 10.4400 - mean\_absolute\_error: 2.45731585/4840 [========>.....................] - ETA: 2s - loss: 10.4303 - mean\_absolute\_error: 2.45631645/4840 [=========>....................] - ETA: 2s - loss: 10.4180 - mean\_absolute\_error: 2.45421704/4840 [=========>....................] - ETA: 2s - loss: 10.4348 - mean\_absolute\_error: 2.45641764/4840 [=========>....................] - ETA: 2s - loss: 10.4472 - mean\_absolute\_error: 2.45831822/4840 [==========>...................] - ETA: 2s - loss: 10.4341 - mean\_absolute\_error: 2.45571878/4840 [==========>...................] - ETA: 2s - loss: 10.4445 - mean\_absolute\_error: 2.45621937/4840 [===========>..................] - ETA: 2s - loss: 10.4593 - mean\_absolute\_error: 2.45791996/4840 [===========>..................] - ETA: 2s - loss: 10.4590 - mean\_absolute\_error: 2.45792055/4840 [===========>..................] - ETA: 2s - loss: 10.4658 - mean\_absolute\_error: 2.45832115/4840 [============>.................] - ETA: 2s - loss: 10.4689 - mean\_absolute\_error: 2.45892172/4840 [============>.................] - ETA: 2s - loss: 10.4774 - mean\_absolute\_error: 2.45992229/4840 [============>.................] - ETA: 2s - loss: 10.4668 - mean\_absolute\_error: 2.45852285/4840 [=============>................] - ETA: 2s - loss: 10.4761 - mean\_absolute\_error: 2.45922344/4840 [=============>................] - ETA: 2s - loss: 10.4710 - mean\_absolute\_error: 2.45852403/4840 [=============>................] - ETA: 2s - loss: 10.4850 - mean\_absolute\_error: 2.45982462/4840 [==============>...............] - ETA: 2s - loss: 10.4760 - mean\_absolute\_error: 2.45882520/4840 [==============>...............] - ETA: 1s - loss: 10.4897 - mean\_absolute\_error: 2.46052575/4840 [==============>...............] - ETA: 1s - loss: 10.4764 - mean\_absolute\_error: 2.45852634/4840 [===============>..............] - ETA: 1s - loss: 10.4818 - mean\_absolute\_error: 2.45992693/4840 [===============>..............] - ETA: 1s - loss: 10.4964 - mean\_absolute\_error: 2.46242753/4840 [================>.............] - ETA: 1s - loss: 10.5069 - mean\_absolute\_error: 2.46382812/4840 [================>.............] - ETA: 1s - loss: 10.5125 - mean\_absolute\_error: 2.46482869/4840 [================>.............] - ETA: 1s - loss: 10.5156 - mean\_absolute\_error: 2.46502929/4840 [=================>............] - ETA: 1s - loss: 10.5057 - mean\_absolute\_error: 2.46302988/4840 [=================>............] - ETA: 1s - loss: 10.4900 - mean\_absolute\_error: 2.46173045/4840 [=================>............] - ETA: 1s - loss: 10.4979 - mean\_absolute\_error: 2.46203103/4840 [==================>...........] - ETA: 1s - loss: 10.4992 - mean\_absolute\_error: 2.46233163/4840 [==================>...........] - ETA: 1s - loss: 10.4963 - mean\_absolute\_error: 2.46193222/4840 [==================>...........] - ETA: 1s - loss: 10.5047 - mean\_absolute\_error: 2.46303281/4840 [===================>..........] - ETA: 1s - loss: 10.5043 - mean\_absolute\_error: 2.46293340/4840 [===================>..........] - ETA: 1s - loss: 10.5100 - mean\_absolute\_error: 2.46363398/4840 [====================>.........] - ETA: 1s - loss: 10.5115 - mean\_absolute\_error: 2.46383455/4840 [====================>.........] - ETA: 1s - loss: 10.5149 - mean\_absolute\_error: 2.46413514/4840 [====================>.........] - ETA: 1s - loss: 10.5178 - mean\_absolute\_error: 2.46453574/4840 [=====================>........] - ETA: 1s - loss: 10.5086 - mean\_absolute\_error: 2.46353634/4840 [=====================>........] - ETA: 1s - loss: 10.5162 - mean\_absolute\_error: 2.46443691/4840 [=====================>........] - ETA: 0s - loss: 10.5149 - mean\_absolute\_error: 2.46453748/4840 [======================>.......] - ETA: 0s - loss: 10.5172 - mean\_absolute\_error: 2.46453807/4840 [======================>.......] - ETA: 0s - loss: 10.5185 - mean\_absolute\_error: 2.46423867/4840 [======================>.......] - ETA: 0s - loss: 10.5141 - mean\_absolute\_error: 2.46343926/4840 [=======================>......] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46183986/4840 [=======================>......] - ETA: 0s - loss: 10.4977 - mean\_absolute\_error: 2.46154046/4840 [========================>.....] - ETA: 0s - loss: 10.4986 - mean\_absolute\_error: 2.46144105/4840 [========================>.....] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.46094164/4840 [========================>.....] - ETA: 0s - loss: 10.4956 - mean\_absolute\_error: 2.46044223/4840 [=========================>....] - ETA: 0s - loss: 10.4972 - mean\_absolute\_error: 2.46104280/4840 [=========================>....] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46104337/4840 [=========================>....] - ETA: 0s - loss: 10.5010 - mean\_absolute\_error: 2.46124396/4840 [==========================>...] - ETA: 0s - loss: 10.5051 - mean\_absolute\_error: 2.46154454/4840 [==========================>...] - ETA: 0s - loss: 10.5094 - mean\_absolute\_error: 2.46214513/4840 [==========================>...] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46134570/4840 [===========================>..] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46064630/4840 [===========================>..] - ETA: 0s - loss: 10.5062 - mean\_absolute\_error: 2.46174689/4840 [============================>.] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46214748/4840 [============================>.] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46134807/4840 [============================>.] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46104840/4840 [==============================] - 4s 901us/step - loss: 10.5026 - mean\_absolute\_error: 2.4615 - val\_loss: 11.4955 - val\_mean\_absolute\_error: 2.5810  
Epoch 76/100  
 1/4840 [..............................] - ETA: 9s - loss: 8.7129 - mean\_absolute\_error: 2.3567 60/4840 [..............................] - ETA: 4s - loss: 10.1523 - mean\_absolute\_error: 2.4636 119/4840 [..............................] - ETA: 4s - loss: 10.3086 - mean\_absolute\_error: 2.4522 178/4840 [>.............................] - ETA: 3s - loss: 10.1412 - mean\_absolute\_error: 2.4251 237/4840 [>.............................] - ETA: 3s - loss: 10.2049 - mean\_absolute\_error: 2.4358 295/4840 [>.............................] - ETA: 3s - loss: 10.2806 - mean\_absolute\_error: 2.4391 353/4840 [=>............................] - ETA: 3s - loss: 10.3466 - mean\_absolute\_error: 2.4449 410/4840 [=>............................] - ETA: 3s - loss: 10.2643 - mean\_absolute\_error: 2.4344 469/4840 [=>............................] - ETA: 3s - loss: 10.2780 - mean\_absolute\_error: 2.4396 528/4840 [==>...........................] - ETA: 3s - loss: 10.3093 - mean\_absolute\_error: 2.4431 587/4840 [==>...........................] - ETA: 3s - loss: 10.3301 - mean\_absolute\_error: 2.4435 642/4840 [==>...........................] - ETA: 3s - loss: 10.3149 - mean\_absolute\_error: 2.4403 692/4840 [===>..........................] - ETA: 3s - loss: 10.3423 - mean\_absolute\_error: 2.4451 731/4840 [===>..........................] - ETA: 3s - loss: 10.3616 - mean\_absolute\_error: 2.4478 771/4840 [===>..........................] - ETA: 3s - loss: 10.3624 - mean\_absolute\_error: 2.4489 819/4840 [====>.........................] - ETA: 3s - loss: 10.3944 - mean\_absolute\_error: 2.4537 867/4840 [====>.........................] - ETA: 3s - loss: 10.4311 - mean\_absolute\_error: 2.4587 915/4840 [====>.........................] - ETA: 3s - loss: 10.3973 - mean\_absolute\_error: 2.4537 967/4840 [====>.........................] - ETA: 3s - loss: 10.4248 - mean\_absolute\_error: 2.45831020/4840 [=====>........................] - ETA: 3s - loss: 10.3828 - mean\_absolute\_error: 2.45211075/4840 [=====>........................] - ETA: 3s - loss: 10.3929 - mean\_absolute\_error: 2.45371125/4840 [=====>........................] - ETA: 3s - loss: 10.4012 - mean\_absolute\_error: 2.45371173/4840 [======>.......................] - ETA: 3s - loss: 10.4135 - mean\_absolute\_error: 2.45571227/4840 [======>.......................] - ETA: 3s - loss: 10.4208 - mean\_absolute\_error: 2.45621286/4840 [======>.......................] - ETA: 3s - loss: 10.4536 - mean\_absolute\_error: 2.46001344/4840 [=======>......................] - ETA: 3s - loss: 10.4605 - mean\_absolute\_error: 2.45981403/4840 [=======>......................] - ETA: 3s - loss: 10.4750 - mean\_absolute\_error: 2.46131459/4840 [========>.....................] - ETA: 3s - loss: 10.4782 - mean\_absolute\_error: 2.46041516/4840 [========>.....................] - ETA: 3s - loss: 10.4692 - mean\_absolute\_error: 2.45941573/4840 [========>.....................] - ETA: 3s - loss: 10.4737 - mean\_absolute\_error: 2.45971633/4840 [=========>....................] - ETA: 2s - loss: 10.4657 - mean\_absolute\_error: 2.45881689/4840 [=========>....................] - ETA: 2s - loss: 10.4739 - mean\_absolute\_error: 2.46001746/4840 [=========>....................] - ETA: 2s - loss: 10.4882 - mean\_absolute\_error: 2.46181801/4840 [==========>...................] - ETA: 2s - loss: 10.4861 - mean\_absolute\_error: 2.46151860/4840 [==========>...................] - ETA: 2s - loss: 10.4854 - mean\_absolute\_error: 2.46031918/4840 [==========>...................] - ETA: 2s - loss: 10.4864 - mean\_absolute\_error: 2.45991975/4840 [===========>..................] - ETA: 2s - loss: 10.4733 - mean\_absolute\_error: 2.45822034/4840 [===========>..................] - ETA: 2s - loss: 10.4772 - mean\_absolute\_error: 2.45862092/4840 [===========>..................] - ETA: 2s - loss: 10.4636 - mean\_absolute\_error: 2.45712150/4840 [============>.................] - ETA: 2s - loss: 10.4595 - mean\_absolute\_error: 2.45682209/4840 [============>.................] - ETA: 2s - loss: 10.4704 - mean\_absolute\_error: 2.45772268/4840 [=============>................] - ETA: 2s - loss: 10.4802 - mean\_absolute\_error: 2.45902328/4840 [=============>................] - ETA: 2s - loss: 10.4888 - mean\_absolute\_error: 2.46042387/4840 [=============>................] - ETA: 2s - loss: 10.4874 - mean\_absolute\_error: 2.46022447/4840 [==============>...............] - ETA: 2s - loss: 10.4948 - mean\_absolute\_error: 2.46102506/4840 [==============>...............] - ETA: 2s - loss: 10.4969 - mean\_absolute\_error: 2.46152566/4840 [==============>...............] - ETA: 2s - loss: 10.4905 - mean\_absolute\_error: 2.46102624/4840 [===============>..............] - ETA: 1s - loss: 10.4721 - mean\_absolute\_error: 2.45892680/4840 [===============>..............] - ETA: 1s - loss: 10.4781 - mean\_absolute\_error: 2.45902739/4840 [===============>..............] - ETA: 1s - loss: 10.4837 - mean\_absolute\_error: 2.45942798/4840 [================>.............] - ETA: 1s - loss: 10.4874 - mean\_absolute\_error: 2.45932857/4840 [================>.............] - ETA: 1s - loss: 10.4974 - mean\_absolute\_error: 2.46072915/4840 [=================>............] - ETA: 1s - loss: 10.4960 - mean\_absolute\_error: 2.46082974/4840 [=================>............] - ETA: 1s - loss: 10.4996 - mean\_absolute\_error: 2.46183034/4840 [=================>............] - ETA: 1s - loss: 10.5011 - mean\_absolute\_error: 2.46203094/4840 [==================>...........] - ETA: 1s - loss: 10.4969 - mean\_absolute\_error: 2.46173151/4840 [==================>...........] - ETA: 1s - loss: 10.5015 - mean\_absolute\_error: 2.46173210/4840 [==================>...........] - ETA: 1s - loss: 10.5097 - mean\_absolute\_error: 2.46283268/4840 [===================>..........] - ETA: 1s - loss: 10.5037 - mean\_absolute\_error: 2.46173328/4840 [===================>..........] - ETA: 1s - loss: 10.5032 - mean\_absolute\_error: 2.46183385/4840 [===================>..........] - ETA: 1s - loss: 10.5123 - mean\_absolute\_error: 2.46353445/4840 [====================>.........] - ETA: 1s - loss: 10.4994 - mean\_absolute\_error: 2.46173504/4840 [====================>.........] - ETA: 1s - loss: 10.4956 - mean\_absolute\_error: 2.46143563/4840 [=====================>........] - ETA: 1s - loss: 10.4921 - mean\_absolute\_error: 2.46113622/4840 [=====================>........] - ETA: 1s - loss: 10.5013 - mean\_absolute\_error: 2.46233681/4840 [=====================>........] - ETA: 1s - loss: 10.5149 - mean\_absolute\_error: 2.46383739/4840 [======================>.......] - ETA: 0s - loss: 10.5055 - mean\_absolute\_error: 2.46263799/4840 [======================>.......] - ETA: 0s - loss: 10.5023 - mean\_absolute\_error: 2.46223855/4840 [======================>.......] - ETA: 0s - loss: 10.4948 - mean\_absolute\_error: 2.46143914/4840 [=======================>......] - ETA: 0s - loss: 10.4899 - mean\_absolute\_error: 2.46103966/4840 [=======================>......] - ETA: 0s - loss: 10.4896 - mean\_absolute\_error: 2.46084005/4840 [=======================>......] - ETA: 0s - loss: 10.4905 - mean\_absolute\_error: 2.46064044/4840 [========================>.....] - ETA: 0s - loss: 10.4877 - mean\_absolute\_error: 2.46024087/4840 [========================>.....] - ETA: 0s - loss: 10.4940 - mean\_absolute\_error: 2.46134132/4840 [========================>.....] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.46034190/4840 [========================>.....] - ETA: 0s - loss: 10.4841 - mean\_absolute\_error: 2.46014248/4840 [=========================>....] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.46144308/4840 [=========================>....] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.46154365/4840 [==========================>...] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46214422/4840 [==========================>...] - ETA: 0s - loss: 10.4985 - mean\_absolute\_error: 2.46234481/4840 [==========================>...] - ETA: 0s - loss: 10.4996 - mean\_absolute\_error: 2.46244540/4840 [===========================>..] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46214598/4840 [===========================>..] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46254658/4840 [===========================>..] - ETA: 0s - loss: 10.5030 - mean\_absolute\_error: 2.46244717/4840 [============================>.] - ETA: 0s - loss: 10.5002 - mean\_absolute\_error: 2.46204776/4840 [============================>.] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.46154835/4840 [============================>.] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46204840/4840 [==============================] - 5s 939us/step - loss: 10.5026 - mean\_absolute\_error: 2.4620 - val\_loss: 11.4951 - val\_mean\_absolute\_error: 2.5809  
Epoch 77/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.9605 - mean\_absolute\_error: 2.1488 60/4840 [..............................] - ETA: 4s - loss: 10.5620 - mean\_absolute\_error: 2.4610 120/4840 [..............................] - ETA: 4s - loss: 10.6920 - mean\_absolute\_error: 2.4742 178/4840 [>.............................] - ETA: 3s - loss: 10.5871 - mean\_absolute\_error: 2.4623 234/4840 [>.............................] - ETA: 3s - loss: 10.5381 - mean\_absolute\_error: 2.4600 287/4840 [>.............................] - ETA: 4s - loss: 10.4820 - mean\_absolute\_error: 2.4540 338/4840 [=>............................] - ETA: 4s - loss: 10.4528 - mean\_absolute\_error: 2.4507 397/4840 [=>............................] - ETA: 3s - loss: 10.4052 - mean\_absolute\_error: 2.4473 454/4840 [=>............................] - ETA: 3s - loss: 10.3178 - mean\_absolute\_error: 2.4339 513/4840 [==>...........................] - ETA: 3s - loss: 10.4148 - mean\_absolute\_error: 2.4462 571/4840 [==>...........................] - ETA: 3s - loss: 10.4387 - mean\_absolute\_error: 2.4501 630/4840 [==>...........................] - ETA: 3s - loss: 10.4506 - mean\_absolute\_error: 2.4509 689/4840 [===>..........................] - ETA: 3s - loss: 10.4768 - mean\_absolute\_error: 2.4533 748/4840 [===>..........................] - ETA: 3s - loss: 10.4278 - mean\_absolute\_error: 2.4479 807/4840 [====>.........................] - ETA: 3s - loss: 10.3851 - mean\_absolute\_error: 2.4433 865/4840 [====>.........................] - ETA: 3s - loss: 10.3418 - mean\_absolute\_error: 2.4394 924/4840 [====>.........................] - ETA: 3s - loss: 10.3429 - mean\_absolute\_error: 2.4405 983/4840 [=====>........................] - ETA: 3s - loss: 10.3494 - mean\_absolute\_error: 2.44151039/4840 [=====>........................] - ETA: 3s - loss: 10.3709 - mean\_absolute\_error: 2.44481096/4840 [=====>........................] - ETA: 3s - loss: 10.4154 - mean\_absolute\_error: 2.45061142/4840 [======>.......................] - ETA: 3s - loss: 10.3988 - mean\_absolute\_error: 2.44901198/4840 [======>.......................] - ETA: 3s - loss: 10.4024 - mean\_absolute\_error: 2.45031257/4840 [======>.......................] - ETA: 3s - loss: 10.4273 - mean\_absolute\_error: 2.45421316/4840 [=======>......................] - ETA: 3s - loss: 10.4120 - mean\_absolute\_error: 2.45181373/4840 [=======>......................] - ETA: 3s - loss: 10.4360 - mean\_absolute\_error: 2.45491431/4840 [=======>......................] - ETA: 2s - loss: 10.4427 - mean\_absolute\_error: 2.45561489/4840 [========>.....................] - ETA: 2s - loss: 10.4499 - mean\_absolute\_error: 2.45661548/4840 [========>.....................] - ETA: 2s - loss: 10.4272 - mean\_absolute\_error: 2.45281605/4840 [========>.....................] - ETA: 2s - loss: 10.4108 - mean\_absolute\_error: 2.45131663/4840 [=========>....................] - ETA: 2s - loss: 10.4040 - mean\_absolute\_error: 2.45111721/4840 [=========>....................] - ETA: 2s - loss: 10.4363 - mean\_absolute\_error: 2.45471781/4840 [==========>...................] - ETA: 2s - loss: 10.4407 - mean\_absolute\_error: 2.45561839/4840 [==========>...................] - ETA: 2s - loss: 10.4441 - mean\_absolute\_error: 2.45671899/4840 [==========>...................] - ETA: 2s - loss: 10.4380 - mean\_absolute\_error: 2.45591958/4840 [===========>..................] - ETA: 2s - loss: 10.4660 - mean\_absolute\_error: 2.45842017/4840 [===========>..................] - ETA: 2s - loss: 10.4754 - mean\_absolute\_error: 2.45962075/4840 [===========>..................] - ETA: 2s - loss: 10.4896 - mean\_absolute\_error: 2.46142134/4840 [============>.................] - ETA: 2s - loss: 10.4850 - mean\_absolute\_error: 2.46102192/4840 [============>.................] - ETA: 2s - loss: 10.4819 - mean\_absolute\_error: 2.46072247/4840 [============>.................] - ETA: 2s - loss: 10.4773 - mean\_absolute\_error: 2.46002305/4840 [=============>................] - ETA: 2s - loss: 10.4596 - mean\_absolute\_error: 2.45752363/4840 [=============>................] - ETA: 2s - loss: 10.4767 - mean\_absolute\_error: 2.45912421/4840 [==============>...............] - ETA: 2s - loss: 10.4939 - mean\_absolute\_error: 2.46122478/4840 [==============>...............] - ETA: 2s - loss: 10.4997 - mean\_absolute\_error: 2.46242536/4840 [==============>...............] - ETA: 2s - loss: 10.4987 - mean\_absolute\_error: 2.46232595/4840 [===============>..............] - ETA: 1s - loss: 10.4995 - mean\_absolute\_error: 2.46242652/4840 [===============>..............] - ETA: 1s - loss: 10.5103 - mean\_absolute\_error: 2.46342711/4840 [===============>..............] - ETA: 1s - loss: 10.5144 - mean\_absolute\_error: 2.46442770/4840 [================>.............] - ETA: 1s - loss: 10.5137 - mean\_absolute\_error: 2.46412828/4840 [================>.............] - ETA: 1s - loss: 10.5145 - mean\_absolute\_error: 2.46422886/4840 [================>.............] - ETA: 1s - loss: 10.5137 - mean\_absolute\_error: 2.46432944/4840 [=================>............] - ETA: 1s - loss: 10.5162 - mean\_absolute\_error: 2.46373002/4840 [=================>............] - ETA: 1s - loss: 10.5151 - mean\_absolute\_error: 2.46353061/4840 [=================>............] - ETA: 1s - loss: 10.5298 - mean\_absolute\_error: 2.46493120/4840 [==================>...........] - ETA: 1s - loss: 10.5184 - mean\_absolute\_error: 2.46293177/4840 [==================>...........] - ETA: 1s - loss: 10.5134 - mean\_absolute\_error: 2.46223235/4840 [===================>..........] - ETA: 1s - loss: 10.5193 - mean\_absolute\_error: 2.46333295/4840 [===================>..........] - ETA: 1s - loss: 10.5207 - mean\_absolute\_error: 2.46333354/4840 [===================>..........] - ETA: 1s - loss: 10.5163 - mean\_absolute\_error: 2.46323410/4840 [====================>.........] - ETA: 1s - loss: 10.5195 - mean\_absolute\_error: 2.46383464/4840 [====================>.........] - ETA: 1s - loss: 10.5144 - mean\_absolute\_error: 2.46323520/4840 [====================>.........] - ETA: 1s - loss: 10.5077 - mean\_absolute\_error: 2.46213579/4840 [=====================>........] - ETA: 1s - loss: 10.5072 - mean\_absolute\_error: 2.46193638/4840 [=====================>........] - ETA: 1s - loss: 10.5147 - mean\_absolute\_error: 2.46313695/4840 [=====================>........] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46183752/4840 [======================>.......] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46163810/4840 [======================>.......] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46103869/4840 [======================>.......] - ETA: 0s - loss: 10.4952 - mean\_absolute\_error: 2.46073927/4840 [=======================>......] - ETA: 0s - loss: 10.4949 - mean\_absolute\_error: 2.46063986/4840 [=======================>......] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46104043/4840 [========================>.....] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46164091/4840 [========================>.....] - ETA: 0s - loss: 10.4923 - mean\_absolute\_error: 2.46064136/4840 [========================>.....] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.46064186/4840 [========================>.....] - ETA: 0s - loss: 10.4934 - mean\_absolute\_error: 2.46064238/4840 [=========================>....] - ETA: 0s - loss: 10.4920 - mean\_absolute\_error: 2.46044291/4840 [=========================>....] - ETA: 0s - loss: 10.4891 - mean\_absolute\_error: 2.46004344/4840 [=========================>....] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.46044394/4840 [==========================>...] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.46024445/4840 [==========================>...] - ETA: 0s - loss: 10.4813 - mean\_absolute\_error: 2.45954493/4840 [==========================>...] - ETA: 0s - loss: 10.4848 - mean\_absolute\_error: 2.45984543/4840 [===========================>..] - ETA: 0s - loss: 10.4933 - mean\_absolute\_error: 2.46064596/4840 [===========================>..] - ETA: 0s - loss: 10.4935 - mean\_absolute\_error: 2.46074647/4840 [===========================>..] - ETA: 0s - loss: 10.4917 - mean\_absolute\_error: 2.46054698/4840 [============================>.] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46124750/4840 [============================>.] - ETA: 0s - loss: 10.5003 - mean\_absolute\_error: 2.46174802/4840 [============================>.] - ETA: 0s - loss: 10.4947 - mean\_absolute\_error: 2.46084840/4840 [==============================] - 5s 940us/step - loss: 10.5030 - mean\_absolute\_error: 2.4619 - val\_loss: 11.4969 - val\_mean\_absolute\_error: 2.5810  
Epoch 78/100  
 1/4840 [..............................] - ETA: 4s - loss: 9.3662 - mean\_absolute\_error: 2.1435 54/4840 [..............................] - ETA: 4s - loss: 9.8132 - mean\_absolute\_error: 2.3895 104/4840 [..............................] - ETA: 4s - loss: 10.0796 - mean\_absolute\_error: 2.4148 155/4840 [..............................] - ETA: 4s - loss: 10.2220 - mean\_absolute\_error: 2.4329 207/4840 [>.............................] - ETA: 4s - loss: 10.2480 - mean\_absolute\_error: 2.4267 259/4840 [>.............................] - ETA: 4s - loss: 10.3227 - mean\_absolute\_error: 2.4387 308/4840 [>.............................] - ETA: 4s - loss: 10.3827 - mean\_absolute\_error: 2.4475 359/4840 [=>............................] - ETA: 4s - loss: 10.3345 - mean\_absolute\_error: 2.4441 411/4840 [=>............................] - ETA: 4s - loss: 10.3692 - mean\_absolute\_error: 2.4498 459/4840 [=>............................] - ETA: 4s - loss: 10.3632 - mean\_absolute\_error: 2.4465 506/4840 [==>...........................] - ETA: 4s - loss: 10.3705 - mean\_absolute\_error: 2.4454 555/4840 [==>...........................] - ETA: 4s - loss: 10.3986 - mean\_absolute\_error: 2.4502 604/4840 [==>...........................] - ETA: 4s - loss: 10.4178 - mean\_absolute\_error: 2.4513 654/4840 [===>..........................] - ETA: 4s - loss: 10.4748 - mean\_absolute\_error: 2.4578 704/4840 [===>..........................] - ETA: 4s - loss: 10.4957 - mean\_absolute\_error: 2.4601 754/4840 [===>..........................] - ETA: 4s - loss: 10.4923 - mean\_absolute\_error: 2.4609 805/4840 [===>..........................] - ETA: 4s - loss: 10.5405 - mean\_absolute\_error: 2.4676 857/4840 [====>.........................] - ETA: 3s - loss: 10.5256 - mean\_absolute\_error: 2.4654 905/4840 [====>.........................] - ETA: 3s - loss: 10.5513 - mean\_absolute\_error: 2.4695 952/4840 [====>.........................] - ETA: 3s - loss: 10.5289 - mean\_absolute\_error: 2.46761003/4840 [=====>........................] - ETA: 3s - loss: 10.5354 - mean\_absolute\_error: 2.46681057/4840 [=====>........................] - ETA: 3s - loss: 10.5295 - mean\_absolute\_error: 2.46571107/4840 [=====>........................] - ETA: 3s - loss: 10.5370 - mean\_absolute\_error: 2.46841160/4840 [======>.......................] - ETA: 3s - loss: 10.5283 - mean\_absolute\_error: 2.46691204/4840 [======>.......................] - ETA: 3s - loss: 10.5220 - mean\_absolute\_error: 2.46601256/4840 [======>.......................] - ETA: 3s - loss: 10.4946 - mean\_absolute\_error: 2.46241310/4840 [=======>......................] - ETA: 3s - loss: 10.5159 - mean\_absolute\_error: 2.46531361/4840 [=======>......................] - ETA: 3s - loss: 10.5090 - mean\_absolute\_error: 2.46441414/4840 [=======>......................] - ETA: 3s - loss: 10.4764 - mean\_absolute\_error: 2.46011466/4840 [========>.....................] - ETA: 3s - loss: 10.4706 - mean\_absolute\_error: 2.45921515/4840 [========>.....................] - ETA: 3s - loss: 10.4771 - mean\_absolute\_error: 2.45991568/4840 [========>.....................] - ETA: 3s - loss: 10.4623 - mean\_absolute\_error: 2.45851623/4840 [=========>....................] - ETA: 3s - loss: 10.4646 - mean\_absolute\_error: 2.45761675/4840 [=========>....................] - ETA: 3s - loss: 10.4646 - mean\_absolute\_error: 2.45791724/4840 [=========>....................] - ETA: 3s - loss: 10.4715 - mean\_absolute\_error: 2.45891776/4840 [==========>...................] - ETA: 3s - loss: 10.4624 - mean\_absolute\_error: 2.45751830/4840 [==========>...................] - ETA: 2s - loss: 10.4574 - mean\_absolute\_error: 2.45661879/4840 [==========>...................] - ETA: 2s - loss: 10.4486 - mean\_absolute\_error: 2.45531935/4840 [==========>...................] - ETA: 2s - loss: 10.4325 - mean\_absolute\_error: 2.45341988/4840 [===========>..................] - ETA: 2s - loss: 10.4409 - mean\_absolute\_error: 2.45452039/4840 [===========>..................] - ETA: 2s - loss: 10.4493 - mean\_absolute\_error: 2.45522088/4840 [===========>..................] - ETA: 2s - loss: 10.4392 - mean\_absolute\_error: 2.45432144/4840 [============>.................] - ETA: 2s - loss: 10.4561 - mean\_absolute\_error: 2.45752198/4840 [============>.................] - ETA: 2s - loss: 10.4642 - mean\_absolute\_error: 2.45842251/4840 [============>.................] - ETA: 2s - loss: 10.4714 - mean\_absolute\_error: 2.45912303/4840 [=============>................] - ETA: 2s - loss: 10.4812 - mean\_absolute\_error: 2.45952355/4840 [=============>................] - ETA: 2s - loss: 10.4866 - mean\_absolute\_error: 2.46022404/4840 [=============>................] - ETA: 2s - loss: 10.4904 - mean\_absolute\_error: 2.46142457/4840 [==============>...............] - ETA: 2s - loss: 10.4880 - mean\_absolute\_error: 2.46092508/4840 [==============>...............] - ETA: 2s - loss: 10.4960 - mean\_absolute\_error: 2.46252553/4840 [==============>...............] - ETA: 2s - loss: 10.5086 - mean\_absolute\_error: 2.46432603/4840 [===============>..............] - ETA: 2s - loss: 10.5074 - mean\_absolute\_error: 2.46432658/4840 [===============>..............] - ETA: 2s - loss: 10.5138 - mean\_absolute\_error: 2.46472711/4840 [===============>..............] - ETA: 2s - loss: 10.5183 - mean\_absolute\_error: 2.46492761/4840 [================>.............] - ETA: 2s - loss: 10.5280 - mean\_absolute\_error: 2.46592808/4840 [================>.............] - ETA: 2s - loss: 10.5347 - mean\_absolute\_error: 2.46712859/4840 [================>.............] - ETA: 1s - loss: 10.5372 - mean\_absolute\_error: 2.46722913/4840 [=================>............] - ETA: 1s - loss: 10.5311 - mean\_absolute\_error: 2.46652961/4840 [=================>............] - ETA: 1s - loss: 10.5378 - mean\_absolute\_error: 2.46773010/4840 [=================>............] - ETA: 1s - loss: 10.5290 - mean\_absolute\_error: 2.46623059/4840 [=================>............] - ETA: 1s - loss: 10.5365 - mean\_absolute\_error: 2.46693112/4840 [==================>...........] - ETA: 1s - loss: 10.5274 - mean\_absolute\_error: 2.46623167/4840 [==================>...........] - ETA: 1s - loss: 10.5221 - mean\_absolute\_error: 2.46553218/4840 [==================>...........] - ETA: 1s - loss: 10.5213 - mean\_absolute\_error: 2.46533269/4840 [===================>..........] - ETA: 1s - loss: 10.5148 - mean\_absolute\_error: 2.46433319/4840 [===================>..........] - ETA: 1s - loss: 10.5092 - mean\_absolute\_error: 2.46313373/4840 [===================>..........] - ETA: 1s - loss: 10.5082 - mean\_absolute\_error: 2.46283424/4840 [====================>.........] - ETA: 1s - loss: 10.5050 - mean\_absolute\_error: 2.46283475/4840 [====================>.........] - ETA: 1s - loss: 10.4954 - mean\_absolute\_error: 2.46153528/4840 [====================>.........] - ETA: 1s - loss: 10.4960 - mean\_absolute\_error: 2.46113579/4840 [=====================>........] - ETA: 1s - loss: 10.4978 - mean\_absolute\_error: 2.46093627/4840 [=====================>........] - ETA: 1s - loss: 10.4919 - mean\_absolute\_error: 2.45993680/4840 [=====================>........] - ETA: 1s - loss: 10.4868 - mean\_absolute\_error: 2.45933729/4840 [======================>.......] - ETA: 1s - loss: 10.4850 - mean\_absolute\_error: 2.45883779/4840 [======================>.......] - ETA: 1s - loss: 10.4899 - mean\_absolute\_error: 2.45933830/4840 [======================>.......] - ETA: 0s - loss: 10.4893 - mean\_absolute\_error: 2.45913870/4840 [======================>.......] - ETA: 0s - loss: 10.4892 - mean\_absolute\_error: 2.45923909/4840 [=======================>......] - ETA: 0s - loss: 10.4788 - mean\_absolute\_error: 2.45793955/4840 [=======================>......] - ETA: 0s - loss: 10.4753 - mean\_absolute\_error: 2.45763999/4840 [=======================>......] - ETA: 0s - loss: 10.4802 - mean\_absolute\_error: 2.45804043/4840 [========================>.....] - ETA: 0s - loss: 10.4912 - mean\_absolute\_error: 2.45914080/4840 [========================>.....] - ETA: 0s - loss: 10.4945 - mean\_absolute\_error: 2.45974117/4840 [========================>.....] - ETA: 0s - loss: 10.4949 - mean\_absolute\_error: 2.45964164/4840 [========================>.....] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.45994210/4840 [=========================>....] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46054253/4840 [=========================>....] - ETA: 0s - loss: 10.4970 - mean\_absolute\_error: 2.46034292/4840 [=========================>....] - ETA: 0s - loss: 10.4944 - mean\_absolute\_error: 2.45994333/4840 [=========================>....] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46074374/4840 [==========================>...] - ETA: 0s - loss: 10.4987 - mean\_absolute\_error: 2.46054407/4840 [==========================>...] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46044446/4840 [==========================>...] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46084481/4840 [==========================>...] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46044526/4840 [===========================>..] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46134564/4840 [===========================>..] - ETA: 0s - loss: 10.4982 - mean\_absolute\_error: 2.46104602/4840 [===========================>..] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46154646/4840 [===========================>..] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46144700/4840 [============================>.] - ETA: 0s - loss: 10.4998 - mean\_absolute\_error: 2.46134755/4840 [============================>.] - ETA: 0s - loss: 10.4973 - mean\_absolute\_error: 2.46094807/4840 [============================>.] - ETA: 0s - loss: 10.4959 - mean\_absolute\_error: 2.46084840/4840 [==============================] - 5s 1ms/step - loss: 10.5030 - mean\_absolute\_error: 2.4616 - val\_loss: 11.4939 - val\_mean\_absolute\_error: 2.5808  
Epoch 79/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.4394 - mean\_absolute\_error: 2.3333 49/4840 [..............................] - ETA: 4s - loss: 10.2371 - mean\_absolute\_error: 2.4073 103/4840 [..............................] - ETA: 4s - loss: 10.1731 - mean\_absolute\_error: 2.4062 155/4840 [..............................] - ETA: 4s - loss: 10.2380 - mean\_absolute\_error: 2.4275 206/4840 [>.............................] - ETA: 4s - loss: 10.3351 - mean\_absolute\_error: 2.4430 260/4840 [>.............................] - ETA: 4s - loss: 10.2965 - mean\_absolute\_error: 2.4417 311/4840 [>.............................] - ETA: 4s - loss: 10.2762 - mean\_absolute\_error: 2.4388 360/4840 [=>............................] - ETA: 4s - loss: 10.3746 - mean\_absolute\_error: 2.4491 414/4840 [=>............................] - ETA: 4s - loss: 10.4030 - mean\_absolute\_error: 2.4528 468/4840 [=>............................] - ETA: 4s - loss: 10.3845 - mean\_absolute\_error: 2.4526 518/4840 [==>...........................] - ETA: 4s - loss: 10.3178 - mean\_absolute\_error: 2.4430 567/4840 [==>...........................] - ETA: 4s - loss: 10.3489 - mean\_absolute\_error: 2.4486 620/4840 [==>...........................] - ETA: 4s - loss: 10.3510 - mean\_absolute\_error: 2.4479 670/4840 [===>..........................] - ETA: 4s - loss: 10.3834 - mean\_absolute\_error: 2.4505 718/4840 [===>..........................] - ETA: 4s - loss: 10.3599 - mean\_absolute\_error: 2.4474 770/4840 [===>..........................] - ETA: 3s - loss: 10.3817 - mean\_absolute\_error: 2.4504 823/4840 [====>.........................] - ETA: 3s - loss: 10.4128 - mean\_absolute\_error: 2.4514 879/4840 [====>.........................] - ETA: 3s - loss: 10.4373 - mean\_absolute\_error: 2.4540 937/4840 [====>.........................] - ETA: 3s - loss: 10.4654 - mean\_absolute\_error: 2.4553 992/4840 [=====>........................] - ETA: 3s - loss: 10.4528 - mean\_absolute\_error: 2.45341051/4840 [=====>........................] - ETA: 3s - loss: 10.4416 - mean\_absolute\_error: 2.45211110/4840 [=====>........................] - ETA: 3s - loss: 10.4760 - mean\_absolute\_error: 2.45731170/4840 [======>.......................] - ETA: 3s - loss: 10.4717 - mean\_absolute\_error: 2.45691228/4840 [======>.......................] - ETA: 3s - loss: 10.4898 - mean\_absolute\_error: 2.46001288/4840 [======>.......................] - ETA: 3s - loss: 10.4589 - mean\_absolute\_error: 2.45651346/4840 [=======>......................] - ETA: 3s - loss: 10.4722 - mean\_absolute\_error: 2.45851406/4840 [=======>......................] - ETA: 3s - loss: 10.4643 - mean\_absolute\_error: 2.45771466/4840 [========>.....................] - ETA: 3s - loss: 10.4558 - mean\_absolute\_error: 2.45751521/4840 [========>.....................] - ETA: 3s - loss: 10.4493 - mean\_absolute\_error: 2.45681579/4840 [========>.....................] - ETA: 3s - loss: 10.4266 - mean\_absolute\_error: 2.45401637/4840 [=========>....................] - ETA: 2s - loss: 10.4189 - mean\_absolute\_error: 2.45331696/4840 [=========>....................] - ETA: 2s - loss: 10.4107 - mean\_absolute\_error: 2.45241755/4840 [=========>....................] - ETA: 2s - loss: 10.4215 - mean\_absolute\_error: 2.45311813/4840 [==========>...................] - ETA: 2s - loss: 10.4186 - mean\_absolute\_error: 2.45161868/4840 [==========>...................] - ETA: 2s - loss: 10.4262 - mean\_absolute\_error: 2.45231925/4840 [==========>...................] - ETA: 2s - loss: 10.4296 - mean\_absolute\_error: 2.45301984/4840 [===========>..................] - ETA: 2s - loss: 10.4197 - mean\_absolute\_error: 2.45142044/4840 [===========>..................] - ETA: 2s - loss: 10.4157 - mean\_absolute\_error: 2.45062102/4840 [============>.................] - ETA: 2s - loss: 10.4372 - mean\_absolute\_error: 2.45302161/4840 [============>.................] - ETA: 2s - loss: 10.4486 - mean\_absolute\_error: 2.45452220/4840 [============>.................] - ETA: 2s - loss: 10.4526 - mean\_absolute\_error: 2.45542280/4840 [=============>................] - ETA: 2s - loss: 10.4519 - mean\_absolute\_error: 2.45572339/4840 [=============>................] - ETA: 2s - loss: 10.4580 - mean\_absolute\_error: 2.45722398/4840 [=============>................] - ETA: 2s - loss: 10.4606 - mean\_absolute\_error: 2.45802458/4840 [==============>...............] - ETA: 2s - loss: 10.4568 - mean\_absolute\_error: 2.45712518/4840 [==============>...............] - ETA: 2s - loss: 10.4689 - mean\_absolute\_error: 2.45862575/4840 [==============>...............] - ETA: 2s - loss: 10.4661 - mean\_absolute\_error: 2.45812634/4840 [===============>..............] - ETA: 1s - loss: 10.4784 - mean\_absolute\_error: 2.45962691/4840 [===============>..............] - ETA: 1s - loss: 10.4847 - mean\_absolute\_error: 2.46022750/4840 [================>.............] - ETA: 1s - loss: 10.4775 - mean\_absolute\_error: 2.45962805/4840 [================>.............] - ETA: 1s - loss: 10.4856 - mean\_absolute\_error: 2.46072864/4840 [================>.............] - ETA: 1s - loss: 10.4882 - mean\_absolute\_error: 2.46102925/4840 [=================>............] - ETA: 1s - loss: 10.4933 - mean\_absolute\_error: 2.46132982/4840 [=================>............] - ETA: 1s - loss: 10.5056 - mean\_absolute\_error: 2.46333042/4840 [=================>............] - ETA: 1s - loss: 10.5167 - mean\_absolute\_error: 2.46453101/4840 [==================>...........] - ETA: 1s - loss: 10.5201 - mean\_absolute\_error: 2.46463161/4840 [==================>...........] - ETA: 1s - loss: 10.5158 - mean\_absolute\_error: 2.46413221/4840 [==================>...........] - ETA: 1s - loss: 10.5133 - mean\_absolute\_error: 2.46343281/4840 [===================>..........] - ETA: 1s - loss: 10.5115 - mean\_absolute\_error: 2.46313339/4840 [===================>..........] - ETA: 1s - loss: 10.5219 - mean\_absolute\_error: 2.46463399/4840 [====================>.........] - ETA: 1s - loss: 10.5125 - mean\_absolute\_error: 2.46363459/4840 [====================>.........] - ETA: 1s - loss: 10.5079 - mean\_absolute\_error: 2.46283519/4840 [====================>.........] - ETA: 1s - loss: 10.5130 - mean\_absolute\_error: 2.46323578/4840 [=====================>........] - ETA: 1s - loss: 10.5066 - mean\_absolute\_error: 2.46243635/4840 [=====================>........] - ETA: 1s - loss: 10.5052 - mean\_absolute\_error: 2.46253691/4840 [=====================>........] - ETA: 1s - loss: 10.5053 - mean\_absolute\_error: 2.46283748/4840 [======================>.......] - ETA: 0s - loss: 10.5113 - mean\_absolute\_error: 2.46353808/4840 [======================>.......] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46193866/4840 [======================>.......] - ETA: 0s - loss: 10.5014 - mean\_absolute\_error: 2.46223922/4840 [=======================>......] - ETA: 0s - loss: 10.5072 - mean\_absolute\_error: 2.46313978/4840 [=======================>......] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46244037/4840 [========================>.....] - ETA: 0s - loss: 10.4990 - mean\_absolute\_error: 2.46234090/4840 [========================>.....] - ETA: 0s - loss: 10.5032 - mean\_absolute\_error: 2.46264141/4840 [========================>.....] - ETA: 0s - loss: 10.4985 - mean\_absolute\_error: 2.46184186/4840 [========================>.....] - ETA: 0s - loss: 10.5036 - mean\_absolute\_error: 2.46234243/4840 [=========================>....] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46184303/4840 [=========================>....] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46204363/4840 [==========================>...] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46184422/4840 [==========================>...] - ETA: 0s - loss: 10.5065 - mean\_absolute\_error: 2.46214481/4840 [==========================>...] - ETA: 0s - loss: 10.5052 - mean\_absolute\_error: 2.46204541/4840 [===========================>..] - ETA: 0s - loss: 10.5109 - mean\_absolute\_error: 2.46264601/4840 [===========================>..] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46194660/4840 [===========================>..] - ETA: 0s - loss: 10.5128 - mean\_absolute\_error: 2.46274719/4840 [============================>.] - ETA: 0s - loss: 10.5120 - mean\_absolute\_error: 2.46254779/4840 [============================>.] - ETA: 0s - loss: 10.5093 - mean\_absolute\_error: 2.46224839/4840 [============================>.] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46124840/4840 [==============================] - 5s 931us/step - loss: 10.5029 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4946 - val\_mean\_absolute\_error: 2.5806  
Epoch 80/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.5979 - mean\_absolute\_error: 2.6034 60/4840 [..............................] - ETA: 4s - loss: 10.2004 - mean\_absolute\_error: 2.3945 119/4840 [..............................] - ETA: 4s - loss: 10.0775 - mean\_absolute\_error: 2.3937 178/4840 [>.............................] - ETA: 3s - loss: 10.1224 - mean\_absolute\_error: 2.4077 236/4840 [>.............................] - ETA: 3s - loss: 10.1974 - mean\_absolute\_error: 2.4252 295/4840 [>.............................] - ETA: 3s - loss: 10.2344 - mean\_absolute\_error: 2.4271 354/4840 [=>............................] - ETA: 3s - loss: 10.3272 - mean\_absolute\_error: 2.4356 413/4840 [=>............................] - ETA: 3s - loss: 10.2651 - mean\_absolute\_error: 2.4277 472/4840 [=>............................] - ETA: 3s - loss: 10.3277 - mean\_absolute\_error: 2.4387 532/4840 [==>...........................] - ETA: 3s - loss: 10.3585 - mean\_absolute\_error: 2.4427 588/4840 [==>...........................] - ETA: 3s - loss: 10.3235 - mean\_absolute\_error: 2.4366 647/4840 [===>..........................] - ETA: 3s - loss: 10.3183 - mean\_absolute\_error: 2.4356 707/4840 [===>..........................] - ETA: 3s - loss: 10.3980 - mean\_absolute\_error: 2.4456 766/4840 [===>..........................] - ETA: 3s - loss: 10.3752 - mean\_absolute\_error: 2.4443 825/4840 [====>.........................] - ETA: 3s - loss: 10.3462 - mean\_absolute\_error: 2.4389 883/4840 [====>.........................] - ETA: 3s - loss: 10.3724 - mean\_absolute\_error: 2.4401 943/4840 [====>.........................] - ETA: 3s - loss: 10.3844 - mean\_absolute\_error: 2.44131002/4840 [=====>........................] - ETA: 3s - loss: 10.4182 - mean\_absolute\_error: 2.44521063/4840 [=====>........................] - ETA: 3s - loss: 10.4031 - mean\_absolute\_error: 2.44201122/4840 [=====>........................] - ETA: 3s - loss: 10.3907 - mean\_absolute\_error: 2.44191172/4840 [======>.......................] - ETA: 3s - loss: 10.3746 - mean\_absolute\_error: 2.43961231/4840 [======>.......................] - ETA: 3s - loss: 10.3621 - mean\_absolute\_error: 2.43791291/4840 [=======>......................] - ETA: 3s - loss: 10.3666 - mean\_absolute\_error: 2.43851351/4840 [=======>......................] - ETA: 2s - loss: 10.3861 - mean\_absolute\_error: 2.43931409/4840 [=======>......................] - ETA: 2s - loss: 10.3686 - mean\_absolute\_error: 2.43831468/4840 [========>.....................] - ETA: 2s - loss: 10.3722 - mean\_absolute\_error: 2.43901528/4840 [========>.....................] - ETA: 2s - loss: 10.3691 - mean\_absolute\_error: 2.43781587/4840 [========>.....................] - ETA: 2s - loss: 10.3831 - mean\_absolute\_error: 2.43931646/4840 [=========>....................] - ETA: 2s - loss: 10.3891 - mean\_absolute\_error: 2.43961706/4840 [=========>....................] - ETA: 2s - loss: 10.3766 - mean\_absolute\_error: 2.43851765/4840 [=========>....................] - ETA: 2s - loss: 10.3824 - mean\_absolute\_error: 2.44031825/4840 [==========>...................] - ETA: 2s - loss: 10.4021 - mean\_absolute\_error: 2.44331885/4840 [==========>...................] - ETA: 2s - loss: 10.3949 - mean\_absolute\_error: 2.44251945/4840 [===========>..................] - ETA: 2s - loss: 10.3944 - mean\_absolute\_error: 2.44252003/4840 [===========>..................] - ETA: 2s - loss: 10.3730 - mean\_absolute\_error: 2.44002063/4840 [===========>..................] - ETA: 2s - loss: 10.3674 - mean\_absolute\_error: 2.44022123/4840 [============>.................] - ETA: 2s - loss: 10.3755 - mean\_absolute\_error: 2.44132182/4840 [============>.................] - ETA: 2s - loss: 10.3671 - mean\_absolute\_error: 2.44052242/4840 [============>.................] - ETA: 2s - loss: 10.3791 - mean\_absolute\_error: 2.44242301/4840 [=============>................] - ETA: 2s - loss: 10.3914 - mean\_absolute\_error: 2.44442355/4840 [=============>................] - ETA: 2s - loss: 10.3968 - mean\_absolute\_error: 2.44532414/4840 [=============>................] - ETA: 2s - loss: 10.4016 - mean\_absolute\_error: 2.44552475/4840 [==============>...............] - ETA: 2s - loss: 10.3945 - mean\_absolute\_error: 2.44452534/4840 [==============>...............] - ETA: 1s - loss: 10.4082 - mean\_absolute\_error: 2.44662595/4840 [===============>..............] - ETA: 1s - loss: 10.4074 - mean\_absolute\_error: 2.44662655/4840 [===============>..............] - ETA: 1s - loss: 10.4018 - mean\_absolute\_error: 2.44592715/4840 [===============>..............] - ETA: 1s - loss: 10.4050 - mean\_absolute\_error: 2.44642775/4840 [================>.............] - ETA: 1s - loss: 10.3953 - mean\_absolute\_error: 2.44552834/4840 [================>.............] - ETA: 1s - loss: 10.3848 - mean\_absolute\_error: 2.44442894/4840 [================>.............] - ETA: 1s - loss: 10.3883 - mean\_absolute\_error: 2.44502954/4840 [=================>............] - ETA: 1s - loss: 10.4027 - mean\_absolute\_error: 2.44693013/4840 [=================>............] - ETA: 1s - loss: 10.4143 - mean\_absolute\_error: 2.44833073/4840 [==================>...........] - ETA: 1s - loss: 10.4147 - mean\_absolute\_error: 2.44813132/4840 [==================>...........] - ETA: 1s - loss: 10.4166 - mean\_absolute\_error: 2.44843189/4840 [==================>...........] - ETA: 1s - loss: 10.4085 - mean\_absolute\_error: 2.44753246/4840 [===================>..........] - ETA: 1s - loss: 10.4037 - mean\_absolute\_error: 2.44723306/4840 [===================>..........] - ETA: 1s - loss: 10.4004 - mean\_absolute\_error: 2.44653365/4840 [===================>..........] - ETA: 1s - loss: 10.4028 - mean\_absolute\_error: 2.44653425/4840 [====================>.........] - ETA: 1s - loss: 10.4036 - mean\_absolute\_error: 2.44733484/4840 [====================>.........] - ETA: 1s - loss: 10.4105 - mean\_absolute\_error: 2.44883522/4840 [====================>.........] - ETA: 1s - loss: 10.4239 - mean\_absolute\_error: 2.45043557/4840 [=====================>........] - ETA: 1s - loss: 10.4275 - mean\_absolute\_error: 2.45113595/4840 [=====================>........] - ETA: 1s - loss: 10.4353 - mean\_absolute\_error: 2.45183625/4840 [=====================>........] - ETA: 1s - loss: 10.4320 - mean\_absolute\_error: 2.45153674/4840 [=====================>........] - ETA: 1s - loss: 10.4377 - mean\_absolute\_error: 2.45253727/4840 [======================>.......] - ETA: 0s - loss: 10.4387 - mean\_absolute\_error: 2.45243785/4840 [======================>.......] - ETA: 0s - loss: 10.4353 - mean\_absolute\_error: 2.45193844/4840 [======================>.......] - ETA: 0s - loss: 10.4398 - mean\_absolute\_error: 2.45233904/4840 [=======================>......] - ETA: 0s - loss: 10.4390 - mean\_absolute\_error: 2.45253963/4840 [=======================>......] - ETA: 0s - loss: 10.4429 - mean\_absolute\_error: 2.45294021/4840 [=======================>......] - ETA: 0s - loss: 10.4376 - mean\_absolute\_error: 2.45224077/4840 [========================>.....] - ETA: 0s - loss: 10.4359 - mean\_absolute\_error: 2.45174133/4840 [========================>.....] - ETA: 0s - loss: 10.4390 - mean\_absolute\_error: 2.45224189/4840 [========================>.....] - ETA: 0s - loss: 10.4441 - mean\_absolute\_error: 2.45304229/4840 [=========================>....] - ETA: 0s - loss: 10.4532 - mean\_absolute\_error: 2.45444284/4840 [=========================>....] - ETA: 0s - loss: 10.4605 - mean\_absolute\_error: 2.45514343/4840 [=========================>....] - ETA: 0s - loss: 10.4680 - mean\_absolute\_error: 2.45614381/4840 [==========================>...] - ETA: 0s - loss: 10.4742 - mean\_absolute\_error: 2.45684433/4840 [==========================>...] - ETA: 0s - loss: 10.4745 - mean\_absolute\_error: 2.45704491/4840 [==========================>...] - ETA: 0s - loss: 10.4793 - mean\_absolute\_error: 2.45734548/4840 [===========================>..] - ETA: 0s - loss: 10.4878 - mean\_absolute\_error: 2.45824605/4840 [===========================>..] - ETA: 0s - loss: 10.4847 - mean\_absolute\_error: 2.45774662/4840 [===========================>..] - ETA: 0s - loss: 10.4860 - mean\_absolute\_error: 2.45804722/4840 [============================>.] - ETA: 0s - loss: 10.4844 - mean\_absolute\_error: 2.45774780/4840 [============================>.] - ETA: 0s - loss: 10.4914 - mean\_absolute\_error: 2.45864839/4840 [============================>.] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46014840/4840 [==============================] - 5s 937us/step - loss: 10.5036 - mean\_absolute\_error: 2.4601 - val\_loss: 11.4954 - val\_mean\_absolute\_error: 2.5813  
Epoch 81/100  
 1/4840 [..............................] - ETA: 9s - loss: 5.8994 - mean\_absolute\_error: 1.9083 53/4840 [..............................] - ETA: 4s - loss: 9.7831 - mean\_absolute\_error: 2.4000 111/4840 [..............................] - ETA: 4s - loss: 10.3175 - mean\_absolute\_error: 2.4492 170/4840 [>.............................] - ETA: 4s - loss: 10.3196 - mean\_absolute\_error: 2.4466 226/4840 [>.............................] - ETA: 4s - loss: 10.4099 - mean\_absolute\_error: 2.4584 284/4840 [>.............................] - ETA: 4s - loss: 10.3469 - mean\_absolute\_error: 2.4479 343/4840 [=>............................] - ETA: 3s - loss: 10.3410 - mean\_absolute\_error: 2.4441 403/4840 [=>............................] - ETA: 3s - loss: 10.3176 - mean\_absolute\_error: 2.4424 462/4840 [=>............................] - ETA: 3s - loss: 10.3224 - mean\_absolute\_error: 2.4439 520/4840 [==>...........................] - ETA: 3s - loss: 10.3636 - mean\_absolute\_error: 2.4462 577/4840 [==>...........................] - ETA: 3s - loss: 10.4365 - mean\_absolute\_error: 2.4559 634/4840 [==>...........................] - ETA: 3s - loss: 10.4516 - mean\_absolute\_error: 2.4565 692/4840 [===>..........................] - ETA: 3s - loss: 10.3869 - mean\_absolute\_error: 2.4484 752/4840 [===>..........................] - ETA: 3s - loss: 10.3873 - mean\_absolute\_error: 2.4481 811/4840 [====>.........................] - ETA: 3s - loss: 10.4037 - mean\_absolute\_error: 2.4499 871/4840 [====>.........................] - ETA: 3s - loss: 10.3553 - mean\_absolute\_error: 2.4431 929/4840 [====>.........................] - ETA: 3s - loss: 10.3604 - mean\_absolute\_error: 2.4449 989/4840 [=====>........................] - ETA: 3s - loss: 10.3258 - mean\_absolute\_error: 2.44081048/4840 [=====>........................] - ETA: 3s - loss: 10.3324 - mean\_absolute\_error: 2.44371108/4840 [=====>........................] - ETA: 3s - loss: 10.3198 - mean\_absolute\_error: 2.44271167/4840 [======>.......................] - ETA: 3s - loss: 10.3430 - mean\_absolute\_error: 2.44541226/4840 [======>.......................] - ETA: 3s - loss: 10.3950 - mean\_absolute\_error: 2.45201285/4840 [======>.......................] - ETA: 3s - loss: 10.4047 - mean\_absolute\_error: 2.45201345/4840 [=======>......................] - ETA: 3s - loss: 10.3999 - mean\_absolute\_error: 2.45111403/4840 [=======>......................] - ETA: 2s - loss: 10.4148 - mean\_absolute\_error: 2.45321462/4840 [========>.....................] - ETA: 2s - loss: 10.4154 - mean\_absolute\_error: 2.45321521/4840 [========>.....................] - ETA: 2s - loss: 10.4025 - mean\_absolute\_error: 2.45191581/4840 [========>.....................] - ETA: 2s - loss: 10.4069 - mean\_absolute\_error: 2.45151640/4840 [=========>....................] - ETA: 2s - loss: 10.4150 - mean\_absolute\_error: 2.45291698/4840 [=========>....................] - ETA: 2s - loss: 10.4226 - mean\_absolute\_error: 2.45361757/4840 [=========>....................] - ETA: 2s - loss: 10.4378 - mean\_absolute\_error: 2.45521816/4840 [==========>...................] - ETA: 2s - loss: 10.4304 - mean\_absolute\_error: 2.45391873/4840 [==========>...................] - ETA: 2s - loss: 10.4433 - mean\_absolute\_error: 2.45491933/4840 [==========>...................] - ETA: 2s - loss: 10.4537 - mean\_absolute\_error: 2.45651991/4840 [===========>..................] - ETA: 2s - loss: 10.4591 - mean\_absolute\_error: 2.45732051/4840 [===========>..................] - ETA: 2s - loss: 10.4550 - mean\_absolute\_error: 2.45642109/4840 [============>.................] - ETA: 2s - loss: 10.4502 - mean\_absolute\_error: 2.45572167/4840 [============>.................] - ETA: 2s - loss: 10.4510 - mean\_absolute\_error: 2.45532217/4840 [============>.................] - ETA: 2s - loss: 10.4462 - mean\_absolute\_error: 2.45502271/4840 [=============>................] - ETA: 2s - loss: 10.4491 - mean\_absolute\_error: 2.45502330/4840 [=============>................] - ETA: 2s - loss: 10.4502 - mean\_absolute\_error: 2.45532390/4840 [=============>................] - ETA: 2s - loss: 10.4465 - mean\_absolute\_error: 2.45382447/4840 [==============>...............] - ETA: 2s - loss: 10.4556 - mean\_absolute\_error: 2.45482505/4840 [==============>...............] - ETA: 2s - loss: 10.4386 - mean\_absolute\_error: 2.45282552/4840 [==============>...............] - ETA: 1s - loss: 10.4434 - mean\_absolute\_error: 2.45382597/4840 [===============>..............] - ETA: 1s - loss: 10.4389 - mean\_absolute\_error: 2.45392642/4840 [===============>..............] - ETA: 1s - loss: 10.4342 - mean\_absolute\_error: 2.45302691/4840 [===============>..............] - ETA: 1s - loss: 10.4405 - mean\_absolute\_error: 2.45352740/4840 [===============>..............] - ETA: 1s - loss: 10.4434 - mean\_absolute\_error: 2.45362787/4840 [================>.............] - ETA: 1s - loss: 10.4539 - mean\_absolute\_error: 2.45472836/4840 [================>.............] - ETA: 1s - loss: 10.4597 - mean\_absolute\_error: 2.45582895/4840 [================>.............] - ETA: 1s - loss: 10.4664 - mean\_absolute\_error: 2.45632950/4840 [=================>............] - ETA: 1s - loss: 10.4668 - mean\_absolute\_error: 2.45633009/4840 [=================>............] - ETA: 1s - loss: 10.4587 - mean\_absolute\_error: 2.45493068/4840 [==================>...........] - ETA: 1s - loss: 10.4700 - mean\_absolute\_error: 2.45603128/4840 [==================>...........] - ETA: 1s - loss: 10.4656 - mean\_absolute\_error: 2.45533188/4840 [==================>...........] - ETA: 1s - loss: 10.4654 - mean\_absolute\_error: 2.45543248/4840 [===================>..........] - ETA: 1s - loss: 10.4787 - mean\_absolute\_error: 2.45713308/4840 [===================>..........] - ETA: 1s - loss: 10.4801 - mean\_absolute\_error: 2.45743368/4840 [===================>..........] - ETA: 1s - loss: 10.4745 - mean\_absolute\_error: 2.45663428/4840 [====================>.........] - ETA: 1s - loss: 10.4821 - mean\_absolute\_error: 2.45823487/4840 [====================>.........] - ETA: 1s - loss: 10.4874 - mean\_absolute\_error: 2.45893546/4840 [====================>.........] - ETA: 1s - loss: 10.5005 - mean\_absolute\_error: 2.46033605/4840 [=====================>........] - ETA: 1s - loss: 10.5064 - mean\_absolute\_error: 2.46113665/4840 [=====================>........] - ETA: 1s - loss: 10.5044 - mean\_absolute\_error: 2.46133724/4840 [======================>.......] - ETA: 0s - loss: 10.4998 - mean\_absolute\_error: 2.46113784/4840 [======================>.......] - ETA: 0s - loss: 10.4967 - mean\_absolute\_error: 2.46073845/4840 [======================>.......] - ETA: 0s - loss: 10.4995 - mean\_absolute\_error: 2.46113904/4840 [=======================>......] - ETA: 0s - loss: 10.5007 - mean\_absolute\_error: 2.46123960/4840 [=======================>......] - ETA: 0s - loss: 10.5036 - mean\_absolute\_error: 2.46154018/4840 [=======================>......] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46134077/4840 [========================>.....] - ETA: 0s - loss: 10.5079 - mean\_absolute\_error: 2.46244136/4840 [========================>.....] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46074194/4840 [========================>.....] - ETA: 0s - loss: 10.4880 - mean\_absolute\_error: 2.45954254/4840 [=========================>....] - ETA: 0s - loss: 10.4881 - mean\_absolute\_error: 2.45964313/4840 [=========================>....] - ETA: 0s - loss: 10.4859 - mean\_absolute\_error: 2.45934373/4840 [==========================>...] - ETA: 0s - loss: 10.4846 - mean\_absolute\_error: 2.45914433/4840 [==========================>...] - ETA: 0s - loss: 10.4884 - mean\_absolute\_error: 2.46004492/4840 [==========================>...] - ETA: 0s - loss: 10.4886 - mean\_absolute\_error: 2.46034551/4840 [===========================>..] - ETA: 0s - loss: 10.4988 - mean\_absolute\_error: 2.46164610/4840 [===========================>..] - ETA: 0s - loss: 10.5005 - mean\_absolute\_error: 2.46184671/4840 [===========================>..] - ETA: 0s - loss: 10.5101 - mean\_absolute\_error: 2.46284730/4840 [============================>.] - ETA: 0s - loss: 10.5075 - mean\_absolute\_error: 2.46254788/4840 [============================>.] - ETA: 0s - loss: 10.5004 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 915us/step - loss: 10.5028 - mean\_absolute\_error: 2.4617 - val\_loss: 11.4961 - val\_mean\_absolute\_error: 2.5806  
Epoch 82/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.8752 - mean\_absolute\_error: 2.1691 58/4840 [..............................] - ETA: 4s - loss: 10.2649 - mean\_absolute\_error: 2.4190 117/4840 [..............................] - ETA: 4s - loss: 10.3613 - mean\_absolute\_error: 2.4302 175/4840 [>.............................] - ETA: 4s - loss: 10.2499 - mean\_absolute\_error: 2.4260 234/4840 [>.............................] - ETA: 3s - loss: 10.3305 - mean\_absolute\_error: 2.4393 289/4840 [>.............................] - ETA: 3s - loss: 10.3716 - mean\_absolute\_error: 2.4465 350/4840 [=>............................] - ETA: 3s - loss: 10.4484 - mean\_absolute\_error: 2.4576 408/4840 [=>............................] - ETA: 3s - loss: 10.4467 - mean\_absolute\_error: 2.4552 468/4840 [=>............................] - ETA: 3s - loss: 10.4703 - mean\_absolute\_error: 2.4572 528/4840 [==>...........................] - ETA: 3s - loss: 10.4521 - mean\_absolute\_error: 2.4545 588/4840 [==>...........................] - ETA: 3s - loss: 10.4622 - mean\_absolute\_error: 2.4545 648/4840 [===>..........................] - ETA: 3s - loss: 10.5032 - mean\_absolute\_error: 2.4606 708/4840 [===>..........................] - ETA: 3s - loss: 10.5018 - mean\_absolute\_error: 2.4608 768/4840 [===>..........................] - ETA: 3s - loss: 10.4828 - mean\_absolute\_error: 2.4571 827/4840 [====>.........................] - ETA: 3s - loss: 10.5289 - mean\_absolute\_error: 2.4620 886/4840 [====>.........................] - ETA: 3s - loss: 10.4836 - mean\_absolute\_error: 2.4572 946/4840 [====>.........................] - ETA: 3s - loss: 10.4769 - mean\_absolute\_error: 2.45511005/4840 [=====>........................] - ETA: 3s - loss: 10.4800 - mean\_absolute\_error: 2.45571064/4840 [=====>........................] - ETA: 3s - loss: 10.4589 - mean\_absolute\_error: 2.45181123/4840 [=====>........................] - ETA: 3s - loss: 10.4699 - mean\_absolute\_error: 2.45431183/4840 [======>.......................] - ETA: 3s - loss: 10.4416 - mean\_absolute\_error: 2.44991242/4840 [======>.......................] - ETA: 3s - loss: 10.4364 - mean\_absolute\_error: 2.45001301/4840 [=======>......................] - ETA: 3s - loss: 10.4534 - mean\_absolute\_error: 2.45281360/4840 [=======>......................] - ETA: 2s - loss: 10.4595 - mean\_absolute\_error: 2.45401419/4840 [=======>......................] - ETA: 2s - loss: 10.4856 - mean\_absolute\_error: 2.45791476/4840 [========>.....................] - ETA: 2s - loss: 10.4712 - mean\_absolute\_error: 2.45651535/4840 [========>.....................] - ETA: 2s - loss: 10.4766 - mean\_absolute\_error: 2.45721593/4840 [========>.....................] - ETA: 2s - loss: 10.4625 - mean\_absolute\_error: 2.45471650/4840 [=========>....................] - ETA: 2s - loss: 10.4726 - mean\_absolute\_error: 2.45581708/4840 [=========>....................] - ETA: 2s - loss: 10.4732 - mean\_absolute\_error: 2.45701766/4840 [=========>....................] - ETA: 2s - loss: 10.4584 - mean\_absolute\_error: 2.45521826/4840 [==========>...................] - ETA: 2s - loss: 10.4500 - mean\_absolute\_error: 2.45421886/4840 [==========>...................] - ETA: 2s - loss: 10.4702 - mean\_absolute\_error: 2.45681945/4840 [===========>..................] - ETA: 2s - loss: 10.4756 - mean\_absolute\_error: 2.45742005/4840 [===========>..................] - ETA: 2s - loss: 10.4916 - mean\_absolute\_error: 2.45862063/4840 [===========>..................] - ETA: 2s - loss: 10.4959 - mean\_absolute\_error: 2.45892120/4840 [============>.................] - ETA: 2s - loss: 10.4880 - mean\_absolute\_error: 2.45782179/4840 [============>.................] - ETA: 2s - loss: 10.4906 - mean\_absolute\_error: 2.45742239/4840 [============>.................] - ETA: 2s - loss: 10.4963 - mean\_absolute\_error: 2.45812299/4840 [=============>................] - ETA: 2s - loss: 10.4841 - mean\_absolute\_error: 2.45712357/4840 [=============>................] - ETA: 2s - loss: 10.4778 - mean\_absolute\_error: 2.45692414/4840 [=============>................] - ETA: 2s - loss: 10.4923 - mean\_absolute\_error: 2.45862474/4840 [==============>...............] - ETA: 2s - loss: 10.4795 - mean\_absolute\_error: 2.45702534/4840 [==============>...............] - ETA: 1s - loss: 10.4823 - mean\_absolute\_error: 2.45732594/4840 [===============>..............] - ETA: 1s - loss: 10.4862 - mean\_absolute\_error: 2.45782652/4840 [===============>..............] - ETA: 1s - loss: 10.4906 - mean\_absolute\_error: 2.45802707/4840 [===============>..............] - ETA: 1s - loss: 10.4842 - mean\_absolute\_error: 2.45722767/4840 [================>.............] - ETA: 1s - loss: 10.4837 - mean\_absolute\_error: 2.45702826/4840 [================>.............] - ETA: 1s - loss: 10.4854 - mean\_absolute\_error: 2.45722887/4840 [================>.............] - ETA: 1s - loss: 10.4862 - mean\_absolute\_error: 2.45772946/4840 [=================>............] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.45753002/4840 [=================>............] - ETA: 1s - loss: 10.4785 - mean\_absolute\_error: 2.45733057/4840 [=================>............] - ETA: 1s - loss: 10.4909 - mean\_absolute\_error: 2.45923110/4840 [==================>...........] - ETA: 1s - loss: 10.4978 - mean\_absolute\_error: 2.45973163/4840 [==================>...........] - ETA: 1s - loss: 10.4908 - mean\_absolute\_error: 2.45933216/4840 [==================>...........] - ETA: 1s - loss: 10.4913 - mean\_absolute\_error: 2.45973267/4840 [===================>..........] - ETA: 1s - loss: 10.4988 - mean\_absolute\_error: 2.46073320/4840 [===================>..........] - ETA: 1s - loss: 10.5028 - mean\_absolute\_error: 2.46093374/4840 [===================>..........] - ETA: 1s - loss: 10.5062 - mean\_absolute\_error: 2.46123428/4840 [====================>.........] - ETA: 1s - loss: 10.4945 - mean\_absolute\_error: 2.46023479/4840 [====================>.........] - ETA: 1s - loss: 10.4954 - mean\_absolute\_error: 2.46033533/4840 [====================>.........] - ETA: 1s - loss: 10.4999 - mean\_absolute\_error: 2.46063585/4840 [=====================>........] - ETA: 1s - loss: 10.4969 - mean\_absolute\_error: 2.46033640/4840 [=====================>........] - ETA: 1s - loss: 10.4939 - mean\_absolute\_error: 2.46043697/4840 [=====================>........] - ETA: 0s - loss: 10.4910 - mean\_absolute\_error: 2.45973753/4840 [======================>.......] - ETA: 0s - loss: 10.4966 - mean\_absolute\_error: 2.46033806/4840 [======================>.......] - ETA: 0s - loss: 10.5008 - mean\_absolute\_error: 2.46083863/4840 [======================>.......] - ETA: 0s - loss: 10.4954 - mean\_absolute\_error: 2.45983920/4840 [=======================>......] - ETA: 0s - loss: 10.4914 - mean\_absolute\_error: 2.45923979/4840 [=======================>......] - ETA: 0s - loss: 10.4989 - mean\_absolute\_error: 2.46024036/4840 [========================>.....] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46004092/4840 [========================>.....] - ETA: 0s - loss: 10.4986 - mean\_absolute\_error: 2.46024147/4840 [========================>.....] - ETA: 0s - loss: 10.4929 - mean\_absolute\_error: 2.45944204/4840 [=========================>....] - ETA: 0s - loss: 10.4963 - mean\_absolute\_error: 2.45964261/4840 [=========================>....] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.45994318/4840 [=========================>....] - ETA: 0s - loss: 10.4983 - mean\_absolute\_error: 2.46004375/4840 [==========================>...] - ETA: 0s - loss: 10.4959 - mean\_absolute\_error: 2.45984425/4840 [==========================>...] - ETA: 0s - loss: 10.4904 - mean\_absolute\_error: 2.45914480/4840 [==========================>...] - ETA: 0s - loss: 10.4973 - mean\_absolute\_error: 2.46014527/4840 [===========================>..] - ETA: 0s - loss: 10.4981 - mean\_absolute\_error: 2.46004583/4840 [===========================>..] - ETA: 0s - loss: 10.4996 - mean\_absolute\_error: 2.46044641/4840 [===========================>..] - ETA: 0s - loss: 10.5042 - mean\_absolute\_error: 2.46124699/4840 [============================>.] - ETA: 0s - loss: 10.5098 - mean\_absolute\_error: 2.46194744/4840 [============================>.] - ETA: 0s - loss: 10.5089 - mean\_absolute\_error: 2.46194780/4840 [============================>.] - ETA: 0s - loss: 10.5087 - mean\_absolute\_error: 2.46184816/4840 [============================>.] - ETA: 0s - loss: 10.5042 - mean\_absolute\_error: 2.46144840/4840 [==============================] - 5s 946us/step - loss: 10.5027 - mean\_absolute\_error: 2.4612 - val\_loss: 11.4974 - val\_mean\_absolute\_error: 2.5817  
Epoch 83/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.3257 - mean\_absolute\_error: 2.4378 54/4840 [..............................] - ETA: 4s - loss: 9.7574 - mean\_absolute\_error: 2.3705 109/4840 [..............................] - ETA: 4s - loss: 10.3787 - mean\_absolute\_error: 2.4310 157/4840 [..............................] - ETA: 4s - loss: 10.3520 - mean\_absolute\_error: 2.4204 202/4840 [>.............................] - ETA: 4s - loss: 10.2204 - mean\_absolute\_error: 2.4189 249/4840 [>.............................] - ETA: 4s - loss: 10.3103 - mean\_absolute\_error: 2.4311 296/4840 [>.............................] - ETA: 4s - loss: 10.3618 - mean\_absolute\_error: 2.4403 349/4840 [=>............................] - ETA: 4s - loss: 10.2196 - mean\_absolute\_error: 2.4251 404/4840 [=>............................] - ETA: 4s - loss: 10.2362 - mean\_absolute\_error: 2.4283 450/4840 [=>............................] - ETA: 4s - loss: 10.2503 - mean\_absolute\_error: 2.4299 493/4840 [==>...........................] - ETA: 4s - loss: 10.2753 - mean\_absolute\_error: 2.4332 544/4840 [==>...........................] - ETA: 4s - loss: 10.2958 - mean\_absolute\_error: 2.4379 589/4840 [==>...........................] - ETA: 4s - loss: 10.3552 - mean\_absolute\_error: 2.4460 631/4840 [==>...........................] - ETA: 4s - loss: 10.3501 - mean\_absolute\_error: 2.4451 662/4840 [===>..........................] - ETA: 4s - loss: 10.3635 - mean\_absolute\_error: 2.4474 698/4840 [===>..........................] - ETA: 4s - loss: 10.4011 - mean\_absolute\_error: 2.4501 742/4840 [===>..........................] - ETA: 4s - loss: 10.4360 - mean\_absolute\_error: 2.4547 792/4840 [===>..........................] - ETA: 4s - loss: 10.4508 - mean\_absolute\_error: 2.4576 837/4840 [====>.........................] - ETA: 4s - loss: 10.4367 - mean\_absolute\_error: 2.4538 883/4840 [====>.........................] - ETA: 4s - loss: 10.4397 - mean\_absolute\_error: 2.4554 933/4840 [====>.........................] - ETA: 4s - loss: 10.4575 - mean\_absolute\_error: 2.4584 980/4840 [=====>........................] - ETA: 4s - loss: 10.4874 - mean\_absolute\_error: 2.46251023/4840 [=====>........................] - ETA: 4s - loss: 10.4412 - mean\_absolute\_error: 2.45771068/4840 [=====>........................] - ETA: 4s - loss: 10.4604 - mean\_absolute\_error: 2.46161106/4840 [=====>........................] - ETA: 4s - loss: 10.4855 - mean\_absolute\_error: 2.46441151/4840 [======>.......................] - ETA: 4s - loss: 10.4580 - mean\_absolute\_error: 2.45941195/4840 [======>.......................] - ETA: 3s - loss: 10.4643 - mean\_absolute\_error: 2.45951240/4840 [======>.......................] - ETA: 3s - loss: 10.4595 - mean\_absolute\_error: 2.45901281/4840 [======>.......................] - ETA: 3s - loss: 10.4442 - mean\_absolute\_error: 2.45761317/4840 [=======>......................] - ETA: 3s - loss: 10.4429 - mean\_absolute\_error: 2.45731359/4840 [=======>......................] - ETA: 3s - loss: 10.4418 - mean\_absolute\_error: 2.45701402/4840 [=======>......................] - ETA: 3s - loss: 10.4206 - mean\_absolute\_error: 2.45501428/4840 [=======>......................] - ETA: 3s - loss: 10.4139 - mean\_absolute\_error: 2.45461454/4840 [========>.....................] - ETA: 3s - loss: 10.4090 - mean\_absolute\_error: 2.45321488/4840 [========>.....................] - ETA: 3s - loss: 10.4125 - mean\_absolute\_error: 2.45401541/4840 [========>.....................] - ETA: 3s - loss: 10.4172 - mean\_absolute\_error: 2.45381594/4840 [========>.....................] - ETA: 3s - loss: 10.4043 - mean\_absolute\_error: 2.45211649/4840 [=========>....................] - ETA: 3s - loss: 10.4105 - mean\_absolute\_error: 2.45181703/4840 [=========>....................] - ETA: 3s - loss: 10.4221 - mean\_absolute\_error: 2.45361761/4840 [=========>....................] - ETA: 3s - loss: 10.4223 - mean\_absolute\_error: 2.45361812/4840 [==========>...................] - ETA: 3s - loss: 10.4223 - mean\_absolute\_error: 2.45421862/4840 [==========>...................] - ETA: 3s - loss: 10.4068 - mean\_absolute\_error: 2.45191918/4840 [==========>...................] - ETA: 3s - loss: 10.4072 - mean\_absolute\_error: 2.45191972/4840 [===========>..................] - ETA: 3s - loss: 10.4144 - mean\_absolute\_error: 2.45222021/4840 [===========>..................] - ETA: 3s - loss: 10.4081 - mean\_absolute\_error: 2.45132070/4840 [===========>..................] - ETA: 3s - loss: 10.4234 - mean\_absolute\_error: 2.45362119/4840 [============>.................] - ETA: 2s - loss: 10.4341 - mean\_absolute\_error: 2.45512168/4840 [============>.................] - ETA: 2s - loss: 10.4252 - mean\_absolute\_error: 2.45352217/4840 [============>.................] - ETA: 2s - loss: 10.4285 - mean\_absolute\_error: 2.45422267/4840 [=============>................] - ETA: 2s - loss: 10.4414 - mean\_absolute\_error: 2.45522320/4840 [=============>................] - ETA: 2s - loss: 10.4312 - mean\_absolute\_error: 2.45362369/4840 [=============>................] - ETA: 2s - loss: 10.4360 - mean\_absolute\_error: 2.45442415/4840 [=============>................] - ETA: 2s - loss: 10.4343 - mean\_absolute\_error: 2.45412465/4840 [==============>...............] - ETA: 2s - loss: 10.4265 - mean\_absolute\_error: 2.45352516/4840 [==============>...............] - ETA: 2s - loss: 10.4403 - mean\_absolute\_error: 2.45482566/4840 [==============>...............] - ETA: 2s - loss: 10.4387 - mean\_absolute\_error: 2.45422614/4840 [===============>..............] - ETA: 2s - loss: 10.4529 - mean\_absolute\_error: 2.45582663/4840 [===============>..............] - ETA: 2s - loss: 10.4617 - mean\_absolute\_error: 2.45662712/4840 [===============>..............] - ETA: 2s - loss: 10.4540 - mean\_absolute\_error: 2.45582760/4840 [================>.............] - ETA: 2s - loss: 10.4487 - mean\_absolute\_error: 2.45512805/4840 [================>.............] - ETA: 2s - loss: 10.4462 - mean\_absolute\_error: 2.45522850/4840 [================>.............] - ETA: 2s - loss: 10.4509 - mean\_absolute\_error: 2.45612891/4840 [================>.............] - ETA: 2s - loss: 10.4593 - mean\_absolute\_error: 2.45682938/4840 [=================>............] - ETA: 2s - loss: 10.4523 - mean\_absolute\_error: 2.45622991/4840 [=================>............] - ETA: 1s - loss: 10.4558 - mean\_absolute\_error: 2.45633040/4840 [=================>............] - ETA: 1s - loss: 10.4506 - mean\_absolute\_error: 2.45603089/4840 [==================>...........] - ETA: 1s - loss: 10.4528 - mean\_absolute\_error: 2.45623139/4840 [==================>...........] - ETA: 1s - loss: 10.4536 - mean\_absolute\_error: 2.45653185/4840 [==================>...........] - ETA: 1s - loss: 10.4532 - mean\_absolute\_error: 2.45623227/4840 [===================>..........] - ETA: 1s - loss: 10.4588 - mean\_absolute\_error: 2.45693278/4840 [===================>..........] - ETA: 1s - loss: 10.4684 - mean\_absolute\_error: 2.45743325/4840 [===================>..........] - ETA: 1s - loss: 10.4752 - mean\_absolute\_error: 2.45863380/4840 [===================>..........] - ETA: 1s - loss: 10.4792 - mean\_absolute\_error: 2.45913437/4840 [====================>.........] - ETA: 1s - loss: 10.4773 - mean\_absolute\_error: 2.45903495/4840 [====================>.........] - ETA: 1s - loss: 10.4780 - mean\_absolute\_error: 2.45933552/4840 [=====================>........] - ETA: 1s - loss: 10.4611 - mean\_absolute\_error: 2.45693607/4840 [=====================>........] - ETA: 1s - loss: 10.4575 - mean\_absolute\_error: 2.45603660/4840 [=====================>........] - ETA: 1s - loss: 10.4620 - mean\_absolute\_error: 2.45653717/4840 [======================>.......] - ETA: 1s - loss: 10.4606 - mean\_absolute\_error: 2.45623774/4840 [======================>.......] - ETA: 1s - loss: 10.4532 - mean\_absolute\_error: 2.45543827/4840 [======================>.......] - ETA: 1s - loss: 10.4606 - mean\_absolute\_error: 2.45643883/4840 [=======================>......] - ETA: 1s - loss: 10.4616 - mean\_absolute\_error: 2.45653938/4840 [=======================>......] - ETA: 0s - loss: 10.4511 - mean\_absolute\_error: 2.45513996/4840 [=======================>......] - ETA: 0s - loss: 10.4500 - mean\_absolute\_error: 2.45524051/4840 [========================>.....] - ETA: 0s - loss: 10.4675 - mean\_absolute\_error: 2.45754108/4840 [========================>.....] - ETA: 0s - loss: 10.4739 - mean\_absolute\_error: 2.45874160/4840 [========================>.....] - ETA: 0s - loss: 10.4871 - mean\_absolute\_error: 2.46054190/4840 [========================>.....] - ETA: 0s - loss: 10.4948 - mean\_absolute\_error: 2.46134232/4840 [=========================>....] - ETA: 0s - loss: 10.4889 - mean\_absolute\_error: 2.46034285/4840 [=========================>....] - ETA: 0s - loss: 10.4902 - mean\_absolute\_error: 2.46084337/4840 [=========================>....] - ETA: 0s - loss: 10.4951 - mean\_absolute\_error: 2.46134388/4840 [==========================>...] - ETA: 0s - loss: 10.4847 - mean\_absolute\_error: 2.45984432/4840 [==========================>...] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.45954473/4840 [==========================>...] - ETA: 0s - loss: 10.4879 - mean\_absolute\_error: 2.45994519/4840 [===========================>..] - ETA: 0s - loss: 10.4846 - mean\_absolute\_error: 2.45934569/4840 [===========================>..] - ETA: 0s - loss: 10.4943 - mean\_absolute\_error: 2.46064617/4840 [===========================>..] - ETA: 0s - loss: 10.4928 - mean\_absolute\_error: 2.46074657/4840 [===========================>..] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.46024706/4840 [============================>.] - ETA: 0s - loss: 10.4940 - mean\_absolute\_error: 2.46024761/4840 [============================>.] - ETA: 0s - loss: 10.4990 - mean\_absolute\_error: 2.46074815/4840 [============================>.] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46054840/4840 [==============================] - 5s 1ms/step - loss: 10.5027 - mean\_absolute\_error: 2.4612 - val\_loss: 11.4990 - val\_mean\_absolute\_error: 2.5815  
Epoch 84/100  
 1/4840 [..............................] - ETA: 4s - loss: 11.2925 - mean\_absolute\_error: 2.4616 57/4840 [..............................] - ETA: 4s - loss: 10.6008 - mean\_absolute\_error: 2.4757 113/4840 [..............................] - ETA: 4s - loss: 10.4433 - mean\_absolute\_error: 2.4501 167/4840 [>.............................] - ETA: 4s - loss: 10.3821 - mean\_absolute\_error: 2.4425 220/4840 [>.............................] - ETA: 4s - loss: 10.3402 - mean\_absolute\_error: 2.4416 277/4840 [>.............................] - ETA: 4s - loss: 10.2276 - mean\_absolute\_error: 2.4288 336/4840 [=>............................] - ETA: 4s - loss: 10.3455 - mean\_absolute\_error: 2.4431 392/4840 [=>............................] - ETA: 4s - loss: 10.3015 - mean\_absolute\_error: 2.4344 447/4840 [=>............................] - ETA: 3s - loss: 10.3566 - mean\_absolute\_error: 2.4424 501/4840 [==>...........................] - ETA: 3s - loss: 10.4020 - mean\_absolute\_error: 2.4470 555/4840 [==>...........................] - ETA: 3s - loss: 10.3589 - mean\_absolute\_error: 2.4433 612/4840 [==>...........................] - ETA: 3s - loss: 10.3686 - mean\_absolute\_error: 2.4458 666/4840 [===>..........................] - ETA: 3s - loss: 10.3629 - mean\_absolute\_error: 2.4464 710/4840 [===>..........................] - ETA: 3s - loss: 10.3849 - mean\_absolute\_error: 2.4494 765/4840 [===>..........................] - ETA: 3s - loss: 10.3796 - mean\_absolute\_error: 2.4485 823/4840 [====>.........................] - ETA: 3s - loss: 10.3657 - mean\_absolute\_error: 2.4458 879/4840 [====>.........................] - ETA: 3s - loss: 10.4099 - mean\_absolute\_error: 2.4503 937/4840 [====>.........................] - ETA: 3s - loss: 10.4074 - mean\_absolute\_error: 2.4499 995/4840 [=====>........................] - ETA: 3s - loss: 10.4521 - mean\_absolute\_error: 2.45541052/4840 [=====>........................] - ETA: 3s - loss: 10.4362 - mean\_absolute\_error: 2.45281107/4840 [=====>........................] - ETA: 3s - loss: 10.4430 - mean\_absolute\_error: 2.45391161/4840 [======>.......................] - ETA: 3s - loss: 10.4373 - mean\_absolute\_error: 2.45411213/4840 [======>.......................] - ETA: 3s - loss: 10.4297 - mean\_absolute\_error: 2.45291266/4840 [======>.......................] - ETA: 3s - loss: 10.4503 - mean\_absolute\_error: 2.45521320/4840 [=======>......................] - ETA: 3s - loss: 10.4366 - mean\_absolute\_error: 2.45361371/4840 [=======>......................] - ETA: 3s - loss: 10.4480 - mean\_absolute\_error: 2.45521426/4840 [=======>......................] - ETA: 3s - loss: 10.4432 - mean\_absolute\_error: 2.45501482/4840 [========>.....................] - ETA: 3s - loss: 10.4533 - mean\_absolute\_error: 2.45691536/4840 [========>.....................] - ETA: 3s - loss: 10.4460 - mean\_absolute\_error: 2.45551591/4840 [========>.....................] - ETA: 2s - loss: 10.4480 - mean\_absolute\_error: 2.45551648/4840 [=========>....................] - ETA: 2s - loss: 10.4379 - mean\_absolute\_error: 2.45431706/4840 [=========>....................] - ETA: 2s - loss: 10.4366 - mean\_absolute\_error: 2.45421764/4840 [=========>....................] - ETA: 2s - loss: 10.4460 - mean\_absolute\_error: 2.45541820/4840 [==========>...................] - ETA: 2s - loss: 10.4451 - mean\_absolute\_error: 2.45521877/4840 [==========>...................] - ETA: 2s - loss: 10.4429 - mean\_absolute\_error: 2.45501936/4840 [===========>..................] - ETA: 2s - loss: 10.4501 - mean\_absolute\_error: 2.45581993/4840 [===========>..................] - ETA: 2s - loss: 10.4623 - mean\_absolute\_error: 2.45732051/4840 [===========>..................] - ETA: 2s - loss: 10.4471 - mean\_absolute\_error: 2.45502105/4840 [============>.................] - ETA: 2s - loss: 10.4435 - mean\_absolute\_error: 2.45472161/4840 [============>.................] - ETA: 2s - loss: 10.4486 - mean\_absolute\_error: 2.45502218/4840 [============>.................] - ETA: 2s - loss: 10.4758 - mean\_absolute\_error: 2.45862275/4840 [=============>................] - ETA: 2s - loss: 10.4753 - mean\_absolute\_error: 2.45872334/4840 [=============>................] - ETA: 2s - loss: 10.4791 - mean\_absolute\_error: 2.45852394/4840 [=============>................] - ETA: 2s - loss: 10.4672 - mean\_absolute\_error: 2.45752452/4840 [==============>...............] - ETA: 2s - loss: 10.4802 - mean\_absolute\_error: 2.45852512/4840 [==============>...............] - ETA: 2s - loss: 10.5000 - mean\_absolute\_error: 2.46122570/4840 [==============>...............] - ETA: 2s - loss: 10.4914 - mean\_absolute\_error: 2.45982626/4840 [===============>..............] - ETA: 1s - loss: 10.4903 - mean\_absolute\_error: 2.45972684/4840 [===============>..............] - ETA: 1s - loss: 10.4931 - mean\_absolute\_error: 2.46022740/4840 [===============>..............] - ETA: 1s - loss: 10.4927 - mean\_absolute\_error: 2.45992795/4840 [================>.............] - ETA: 1s - loss: 10.4972 - mean\_absolute\_error: 2.46042851/4840 [================>.............] - ETA: 1s - loss: 10.4861 - mean\_absolute\_error: 2.45922906/4840 [=================>............] - ETA: 1s - loss: 10.4815 - mean\_absolute\_error: 2.45912963/4840 [=================>............] - ETA: 1s - loss: 10.4762 - mean\_absolute\_error: 2.45853016/4840 [=================>............] - ETA: 1s - loss: 10.4730 - mean\_absolute\_error: 2.45813069/4840 [==================>...........] - ETA: 1s - loss: 10.4796 - mean\_absolute\_error: 2.45933128/4840 [==================>...........] - ETA: 1s - loss: 10.4861 - mean\_absolute\_error: 2.46023187/4840 [==================>...........] - ETA: 1s - loss: 10.4805 - mean\_absolute\_error: 2.45923247/4840 [===================>..........] - ETA: 1s - loss: 10.4968 - mean\_absolute\_error: 2.46113305/4840 [===================>..........] - ETA: 1s - loss: 10.4992 - mean\_absolute\_error: 2.46133362/4840 [===================>..........] - ETA: 1s - loss: 10.4996 - mean\_absolute\_error: 2.46123421/4840 [====================>.........] - ETA: 1s - loss: 10.4896 - mean\_absolute\_error: 2.45983479/4840 [====================>.........] - ETA: 1s - loss: 10.4843 - mean\_absolute\_error: 2.45923538/4840 [====================>.........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.45933596/4840 [=====================>........] - ETA: 1s - loss: 10.4881 - mean\_absolute\_error: 2.45913654/4840 [=====================>........] - ETA: 1s - loss: 10.4871 - mean\_absolute\_error: 2.45883714/4840 [======================>.......] - ETA: 1s - loss: 10.5044 - mean\_absolute\_error: 2.46143774/4840 [======================>.......] - ETA: 0s - loss: 10.5083 - mean\_absolute\_error: 2.46203834/4840 [======================>.......] - ETA: 0s - loss: 10.5071 - mean\_absolute\_error: 2.46183892/4840 [=======================>......] - ETA: 0s - loss: 10.5148 - mean\_absolute\_error: 2.46273952/4840 [=======================>......] - ETA: 0s - loss: 10.5140 - mean\_absolute\_error: 2.46244011/4840 [=======================>......] - ETA: 0s - loss: 10.5230 - mean\_absolute\_error: 2.46374070/4840 [========================>.....] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46274127/4840 [========================>.....] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46364184/4840 [========================>.....] - ETA: 0s - loss: 10.5195 - mean\_absolute\_error: 2.46384243/4840 [=========================>....] - ETA: 0s - loss: 10.5145 - mean\_absolute\_error: 2.46274302/4840 [=========================>....] - ETA: 0s - loss: 10.5063 - mean\_absolute\_error: 2.46204360/4840 [==========================>...] - ETA: 0s - loss: 10.5041 - mean\_absolute\_error: 2.46174419/4840 [==========================>...] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46144479/4840 [==========================>...] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46114538/4840 [===========================>..] - ETA: 0s - loss: 10.4936 - mean\_absolute\_error: 2.46004596/4840 [===========================>..] - ETA: 0s - loss: 10.4957 - mean\_absolute\_error: 2.46044655/4840 [===========================>..] - ETA: 0s - loss: 10.4972 - mean\_absolute\_error: 2.46084714/4840 [============================>.] - ETA: 0s - loss: 10.5048 - mean\_absolute\_error: 2.46194772/4840 [============================>.] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46224830/4840 [============================>.] - ETA: 0s - loss: 10.5028 - mean\_absolute\_error: 2.46204840/4840 [==============================] - 4s 930us/step - loss: 10.5028 - mean\_absolute\_error: 2.4619 - val\_loss: 11.4986 - val\_mean\_absolute\_error: 2.5808  
Epoch 85/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.9501 - mean\_absolute\_error: 2.8080 60/4840 [..............................] - ETA: 4s - loss: 10.3304 - mean\_absolute\_error: 2.4504 119/4840 [..............................] - ETA: 4s - loss: 10.2913 - mean\_absolute\_error: 2.4439 178/4840 [>.............................] - ETA: 3s - loss: 10.2845 - mean\_absolute\_error: 2.4458 237/4840 [>.............................] - ETA: 3s - loss: 10.3082 - mean\_absolute\_error: 2.4480 294/4840 [>.............................] - ETA: 3s - loss: 10.2495 - mean\_absolute\_error: 2.4383 352/4840 [=>............................] - ETA: 3s - loss: 10.2847 - mean\_absolute\_error: 2.4390 412/4840 [=>............................] - ETA: 3s - loss: 10.3942 - mean\_absolute\_error: 2.4537 470/4840 [=>............................] - ETA: 3s - loss: 10.3236 - mean\_absolute\_error: 2.4444 529/4840 [==>...........................] - ETA: 3s - loss: 10.3711 - mean\_absolute\_error: 2.4499 588/4840 [==>...........................] - ETA: 3s - loss: 10.3748 - mean\_absolute\_error: 2.4486 646/4840 [===>..........................] - ETA: 3s - loss: 10.3528 - mean\_absolute\_error: 2.4464 704/4840 [===>..........................] - ETA: 3s - loss: 10.3285 - mean\_absolute\_error: 2.4416 762/4840 [===>..........................] - ETA: 3s - loss: 10.3137 - mean\_absolute\_error: 2.4402 821/4840 [====>.........................] - ETA: 3s - loss: 10.3540 - mean\_absolute\_error: 2.4440 880/4840 [====>.........................] - ETA: 3s - loss: 10.3485 - mean\_absolute\_error: 2.4453 939/4840 [====>.........................] - ETA: 3s - loss: 10.3079 - mean\_absolute\_error: 2.4401 997/4840 [=====>........................] - ETA: 3s - loss: 10.3380 - mean\_absolute\_error: 2.44481055/4840 [=====>........................] - ETA: 3s - loss: 10.3464 - mean\_absolute\_error: 2.44421114/4840 [=====>........................] - ETA: 3s - loss: 10.3500 - mean\_absolute\_error: 2.44321173/4840 [======>.......................] - ETA: 3s - loss: 10.3216 - mean\_absolute\_error: 2.44001233/4840 [======>.......................] - ETA: 3s - loss: 10.3555 - mean\_absolute\_error: 2.44531291/4840 [=======>......................] - ETA: 3s - loss: 10.3707 - mean\_absolute\_error: 2.44691350/4840 [=======>......................] - ETA: 2s - loss: 10.3904 - mean\_absolute\_error: 2.44931409/4840 [=======>......................] - ETA: 2s - loss: 10.3942 - mean\_absolute\_error: 2.44921465/4840 [========>.....................] - ETA: 2s - loss: 10.4045 - mean\_absolute\_error: 2.45151523/4840 [========>.....................] - ETA: 2s - loss: 10.3946 - mean\_absolute\_error: 2.45061582/4840 [========>.....................] - ETA: 2s - loss: 10.3856 - mean\_absolute\_error: 2.44961639/4840 [=========>....................] - ETA: 2s - loss: 10.3838 - mean\_absolute\_error: 2.44911696/4840 [=========>....................] - ETA: 2s - loss: 10.3958 - mean\_absolute\_error: 2.45001755/4840 [=========>....................] - ETA: 2s - loss: 10.3941 - mean\_absolute\_error: 2.45001814/4840 [==========>...................] - ETA: 2s - loss: 10.4077 - mean\_absolute\_error: 2.45101873/4840 [==========>...................] - ETA: 2s - loss: 10.4029 - mean\_absolute\_error: 2.44991932/4840 [==========>...................] - ETA: 2s - loss: 10.3935 - mean\_absolute\_error: 2.44741991/4840 [===========>..................] - ETA: 2s - loss: 10.4011 - mean\_absolute\_error: 2.44852050/4840 [===========>..................] - ETA: 2s - loss: 10.4077 - mean\_absolute\_error: 2.45002108/4840 [============>.................] - ETA: 2s - loss: 10.4165 - mean\_absolute\_error: 2.45172168/4840 [============>.................] - ETA: 2s - loss: 10.3965 - mean\_absolute\_error: 2.44892227/4840 [============>.................] - ETA: 2s - loss: 10.3968 - mean\_absolute\_error: 2.44902286/4840 [=============>................] - ETA: 2s - loss: 10.3959 - mean\_absolute\_error: 2.44912345/4840 [=============>................] - ETA: 2s - loss: 10.4074 - mean\_absolute\_error: 2.44982403/4840 [=============>................] - ETA: 2s - loss: 10.4017 - mean\_absolute\_error: 2.44902462/4840 [==============>...............] - ETA: 2s - loss: 10.3999 - mean\_absolute\_error: 2.44892521/4840 [==============>...............] - ETA: 1s - loss: 10.4103 - mean\_absolute\_error: 2.44982579/4840 [==============>...............] - ETA: 1s - loss: 10.4154 - mean\_absolute\_error: 2.45012637/4840 [===============>..............] - ETA: 1s - loss: 10.4027 - mean\_absolute\_error: 2.44912692/4840 [===============>..............] - ETA: 1s - loss: 10.4213 - mean\_absolute\_error: 2.45132747/4840 [================>.............] - ETA: 1s - loss: 10.4317 - mean\_absolute\_error: 2.45322801/4840 [================>.............] - ETA: 1s - loss: 10.4209 - mean\_absolute\_error: 2.45132860/4840 [================>.............] - ETA: 1s - loss: 10.4204 - mean\_absolute\_error: 2.45142919/4840 [=================>............] - ETA: 1s - loss: 10.4263 - mean\_absolute\_error: 2.45222977/4840 [=================>............] - ETA: 1s - loss: 10.4328 - mean\_absolute\_error: 2.45283036/4840 [=================>............] - ETA: 1s - loss: 10.4468 - mean\_absolute\_error: 2.45423096/4840 [==================>...........] - ETA: 1s - loss: 10.4429 - mean\_absolute\_error: 2.45353155/4840 [==================>...........] - ETA: 1s - loss: 10.4444 - mean\_absolute\_error: 2.45353214/4840 [==================>...........] - ETA: 1s - loss: 10.4456 - mean\_absolute\_error: 2.45373272/4840 [===================>..........] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45463331/4840 [===================>..........] - ETA: 1s - loss: 10.4566 - mean\_absolute\_error: 2.45493391/4840 [====================>.........] - ETA: 1s - loss: 10.4585 - mean\_absolute\_error: 2.45563449/4840 [====================>.........] - ETA: 1s - loss: 10.4691 - mean\_absolute\_error: 2.45673508/4840 [====================>.........] - ETA: 1s - loss: 10.4868 - mean\_absolute\_error: 2.45873567/4840 [=====================>........] - ETA: 1s - loss: 10.4896 - mean\_absolute\_error: 2.45923626/4840 [=====================>........] - ETA: 1s - loss: 10.4859 - mean\_absolute\_error: 2.45883686/4840 [=====================>........] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.45963740/4840 [======================>.......] - ETA: 0s - loss: 10.4924 - mean\_absolute\_error: 2.45973798/4840 [======================>.......] - ETA: 0s - loss: 10.4897 - mean\_absolute\_error: 2.45963854/4840 [======================>.......] - ETA: 0s - loss: 10.4868 - mean\_absolute\_error: 2.45963910/4840 [=======================>......] - ETA: 0s - loss: 10.4895 - mean\_absolute\_error: 2.46003968/4840 [=======================>......] - ETA: 0s - loss: 10.4865 - mean\_absolute\_error: 2.45974025/4840 [=======================>......] - ETA: 0s - loss: 10.4909 - mean\_absolute\_error: 2.46014084/4840 [========================>.....] - ETA: 0s - loss: 10.4875 - mean\_absolute\_error: 2.45964143/4840 [========================>.....] - ETA: 0s - loss: 10.4851 - mean\_absolute\_error: 2.45964202/4840 [=========================>....] - ETA: 0s - loss: 10.4962 - mean\_absolute\_error: 2.46114261/4840 [=========================>....] - ETA: 0s - loss: 10.4997 - mean\_absolute\_error: 2.46144320/4840 [=========================>....] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46184379/4840 [==========================>...] - ETA: 0s - loss: 10.4964 - mean\_absolute\_error: 2.46074438/4840 [==========================>...] - ETA: 0s - loss: 10.4899 - mean\_absolute\_error: 2.45994498/4840 [==========================>...] - ETA: 0s - loss: 10.4906 - mean\_absolute\_error: 2.46024557/4840 [===========================>..] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46104611/4840 [===========================>..] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46154664/4840 [===========================>..] - ETA: 0s - loss: 10.5082 - mean\_absolute\_error: 2.46224721/4840 [============================>.] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46174780/4840 [============================>.] - ETA: 0s - loss: 10.5030 - mean\_absolute\_error: 2.46114839/4840 [============================>.] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46084840/4840 [==============================] - 4s 910us/step - loss: 10.5034 - mean\_absolute\_error: 2.4608 - val\_loss: 11.4971 - val\_mean\_absolute\_error: 2.5807  
Epoch 86/100  
 1/4840 [..............................] - ETA: 4s - loss: 12.3422 - mean\_absolute\_error: 2.7605 59/4840 [..............................] - ETA: 4s - loss: 10.2441 - mean\_absolute\_error: 2.4180 115/4840 [..............................] - ETA: 4s - loss: 10.7981 - mean\_absolute\_error: 2.5012 172/4840 [>.............................] - ETA: 4s - loss: 10.4395 - mean\_absolute\_error: 2.4531 231/4840 [>.............................] - ETA: 4s - loss: 10.5229 - mean\_absolute\_error: 2.4622 290/4840 [>.............................] - ETA: 3s - loss: 10.4435 - mean\_absolute\_error: 2.4565 349/4840 [=>............................] - ETA: 3s - loss: 10.5169 - mean\_absolute\_error: 2.4656 408/4840 [=>............................] - ETA: 3s - loss: 10.5882 - mean\_absolute\_error: 2.4732 467/4840 [=>............................] - ETA: 3s - loss: 10.5283 - mean\_absolute\_error: 2.4659 525/4840 [==>...........................] - ETA: 3s - loss: 10.4982 - mean\_absolute\_error: 2.4613 584/4840 [==>...........................] - ETA: 3s - loss: 10.5341 - mean\_absolute\_error: 2.4651 643/4840 [==>...........................] - ETA: 3s - loss: 10.5363 - mean\_absolute\_error: 2.4654 700/4840 [===>..........................] - ETA: 3s - loss: 10.4895 - mean\_absolute\_error: 2.4586 759/4840 [===>..........................] - ETA: 3s - loss: 10.4571 - mean\_absolute\_error: 2.4547 818/4840 [====>.........................] - ETA: 3s - loss: 10.4415 - mean\_absolute\_error: 2.4529 876/4840 [====>.........................] - ETA: 3s - loss: 10.4378 - mean\_absolute\_error: 2.4539 934/4840 [====>.........................] - ETA: 3s - loss: 10.3958 - mean\_absolute\_error: 2.4483 993/4840 [=====>........................] - ETA: 3s - loss: 10.3768 - mean\_absolute\_error: 2.44351050/4840 [=====>........................] - ETA: 3s - loss: 10.4125 - mean\_absolute\_error: 2.44991107/4840 [=====>........................] - ETA: 3s - loss: 10.3964 - mean\_absolute\_error: 2.44711163/4840 [======>.......................] - ETA: 3s - loss: 10.4214 - mean\_absolute\_error: 2.45071221/4840 [======>.......................] - ETA: 3s - loss: 10.4264 - mean\_absolute\_error: 2.44991279/4840 [======>.......................] - ETA: 3s - loss: 10.3916 - mean\_absolute\_error: 2.44551338/4840 [=======>......................] - ETA: 3s - loss: 10.4001 - mean\_absolute\_error: 2.44571396/4840 [=======>......................] - ETA: 2s - loss: 10.3951 - mean\_absolute\_error: 2.44461455/4840 [========>.....................] - ETA: 2s - loss: 10.3832 - mean\_absolute\_error: 2.44181513/4840 [========>.....................] - ETA: 2s - loss: 10.3914 - mean\_absolute\_error: 2.44261572/4840 [========>.....................] - ETA: 2s - loss: 10.4070 - mean\_absolute\_error: 2.44571632/4840 [=========>....................] - ETA: 2s - loss: 10.4233 - mean\_absolute\_error: 2.44781690/4840 [=========>....................] - ETA: 2s - loss: 10.4284 - mean\_absolute\_error: 2.44911750/4840 [=========>....................] - ETA: 2s - loss: 10.4366 - mean\_absolute\_error: 2.45151808/4840 [==========>...................] - ETA: 2s - loss: 10.4434 - mean\_absolute\_error: 2.45291866/4840 [==========>...................] - ETA: 2s - loss: 10.4424 - mean\_absolute\_error: 2.45301924/4840 [==========>...................] - ETA: 2s - loss: 10.4309 - mean\_absolute\_error: 2.45121982/4840 [===========>..................] - ETA: 2s - loss: 10.4300 - mean\_absolute\_error: 2.45142041/4840 [===========>..................] - ETA: 2s - loss: 10.4409 - mean\_absolute\_error: 2.45272100/4840 [============>.................] - ETA: 2s - loss: 10.4578 - mean\_absolute\_error: 2.45452160/4840 [============>.................] - ETA: 2s - loss: 10.4574 - mean\_absolute\_error: 2.45442219/4840 [============>.................] - ETA: 2s - loss: 10.4650 - mean\_absolute\_error: 2.45542278/4840 [=============>................] - ETA: 2s - loss: 10.4725 - mean\_absolute\_error: 2.45632336/4840 [=============>................] - ETA: 2s - loss: 10.4646 - mean\_absolute\_error: 2.45562394/4840 [=============>................] - ETA: 2s - loss: 10.4766 - mean\_absolute\_error: 2.45652454/4840 [==============>...............] - ETA: 2s - loss: 10.4740 - mean\_absolute\_error: 2.45712513/4840 [==============>...............] - ETA: 2s - loss: 10.4798 - mean\_absolute\_error: 2.45852572/4840 [==============>...............] - ETA: 1s - loss: 10.4676 - mean\_absolute\_error: 2.45662631/4840 [===============>..............] - ETA: 1s - loss: 10.4607 - mean\_absolute\_error: 2.45572690/4840 [===============>..............] - ETA: 1s - loss: 10.4547 - mean\_absolute\_error: 2.45512748/4840 [================>.............] - ETA: 1s - loss: 10.4574 - mean\_absolute\_error: 2.45572807/4840 [================>.............] - ETA: 1s - loss: 10.4691 - mean\_absolute\_error: 2.45702865/4840 [================>.............] - ETA: 1s - loss: 10.4768 - mean\_absolute\_error: 2.45872925/4840 [=================>............] - ETA: 1s - loss: 10.4860 - mean\_absolute\_error: 2.45952982/4840 [=================>............] - ETA: 1s - loss: 10.5052 - mean\_absolute\_error: 2.46193040/4840 [=================>............] - ETA: 1s - loss: 10.5124 - mean\_absolute\_error: 2.46293098/4840 [==================>...........] - ETA: 1s - loss: 10.5073 - mean\_absolute\_error: 2.46253157/4840 [==================>...........] - ETA: 1s - loss: 10.5085 - mean\_absolute\_error: 2.46263215/4840 [==================>...........] - ETA: 1s - loss: 10.5096 - mean\_absolute\_error: 2.46293275/4840 [===================>..........] - ETA: 1s - loss: 10.5121 - mean\_absolute\_error: 2.46343334/4840 [===================>..........] - ETA: 1s - loss: 10.5121 - mean\_absolute\_error: 2.46353393/4840 [====================>.........] - ETA: 1s - loss: 10.5039 - mean\_absolute\_error: 2.46253450/4840 [====================>.........] - ETA: 1s - loss: 10.5045 - mean\_absolute\_error: 2.46253505/4840 [====================>.........] - ETA: 1s - loss: 10.4910 - mean\_absolute\_error: 2.46083563/4840 [=====================>........] - ETA: 1s - loss: 10.4888 - mean\_absolute\_error: 2.46043622/4840 [=====================>........] - ETA: 1s - loss: 10.4889 - mean\_absolute\_error: 2.46053682/4840 [=====================>........] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46173740/4840 [======================>.......] - ETA: 0s - loss: 10.5024 - mean\_absolute\_error: 2.46223798/4840 [======================>.......] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46153857/4840 [======================>.......] - ETA: 0s - loss: 10.5045 - mean\_absolute\_error: 2.46233916/4840 [=======================>......] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46193975/4840 [=======================>......] - ETA: 0s - loss: 10.5100 - mean\_absolute\_error: 2.46304033/4840 [=======================>......] - ETA: 0s - loss: 10.5107 - mean\_absolute\_error: 2.46284091/4840 [========================>.....] - ETA: 0s - loss: 10.5144 - mean\_absolute\_error: 2.46354151/4840 [========================>.....] - ETA: 0s - loss: 10.5254 - mean\_absolute\_error: 2.46454209/4840 [=========================>....] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46364256/4840 [=========================>....] - ETA: 0s - loss: 10.5154 - mean\_absolute\_error: 2.46304282/4840 [=========================>....] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46314330/4840 [=========================>....] - ETA: 0s - loss: 10.5169 - mean\_absolute\_error: 2.46354389/4840 [==========================>...] - ETA: 0s - loss: 10.5150 - mean\_absolute\_error: 2.46314447/4840 [==========================>...] - ETA: 0s - loss: 10.5117 - mean\_absolute\_error: 2.46264506/4840 [==========================>...] - ETA: 0s - loss: 10.5162 - mean\_absolute\_error: 2.46314565/4840 [===========================>..] - ETA: 0s - loss: 10.5117 - mean\_absolute\_error: 2.46234622/4840 [===========================>..] - ETA: 0s - loss: 10.5138 - mean\_absolute\_error: 2.46304679/4840 [============================>.] - ETA: 0s - loss: 10.5164 - mean\_absolute\_error: 2.46334738/4840 [============================>.] - ETA: 0s - loss: 10.5126 - mean\_absolute\_error: 2.46264798/4840 [============================>.] - ETA: 0s - loss: 10.5048 - mean\_absolute\_error: 2.46134840/4840 [==============================] - 4s 924us/step - loss: 10.5024 - mean\_absolute\_error: 2.4610 - val\_loss: 11.5018 - val\_mean\_absolute\_error: 2.5813  
Epoch 87/100  
 1/4840 [..............................] - ETA: 9s - loss: 9.6420 - mean\_absolute\_error: 2.3467 60/4840 [..............................] - ETA: 4s - loss: 10.8040 - mean\_absolute\_error: 2.4929 120/4840 [..............................] - ETA: 4s - loss: 10.7406 - mean\_absolute\_error: 2.4842 179/4840 [>.............................] - ETA: 3s - loss: 10.5290 - mean\_absolute\_error: 2.4564 239/4840 [>.............................] - ETA: 3s - loss: 10.6283 - mean\_absolute\_error: 2.4720 298/4840 [>.............................] - ETA: 3s - loss: 10.5649 - mean\_absolute\_error: 2.4655 358/4840 [=>............................] - ETA: 3s - loss: 10.5591 - mean\_absolute\_error: 2.4700 418/4840 [=>............................] - ETA: 3s - loss: 10.5522 - mean\_absolute\_error: 2.4697 477/4840 [=>............................] - ETA: 3s - loss: 10.4704 - mean\_absolute\_error: 2.4583 537/4840 [==>...........................] - ETA: 3s - loss: 10.4147 - mean\_absolute\_error: 2.4505 595/4840 [==>...........................] - ETA: 3s - loss: 10.3511 - mean\_absolute\_error: 2.4427 637/4840 [==>...........................] - ETA: 3s - loss: 10.3660 - mean\_absolute\_error: 2.4446 671/4840 [===>..........................] - ETA: 3s - loss: 10.3407 - mean\_absolute\_error: 2.4412 724/4840 [===>..........................] - ETA: 3s - loss: 10.3611 - mean\_absolute\_error: 2.4454 783/4840 [===>..........................] - ETA: 3s - loss: 10.3889 - mean\_absolute\_error: 2.4480 842/4840 [====>.........................] - ETA: 3s - loss: 10.4099 - mean\_absolute\_error: 2.4512 902/4840 [====>.........................] - ETA: 3s - loss: 10.4307 - mean\_absolute\_error: 2.4515 961/4840 [====>.........................] - ETA: 3s - loss: 10.4122 - mean\_absolute\_error: 2.45021021/4840 [=====>........................] - ETA: 3s - loss: 10.4214 - mean\_absolute\_error: 2.45071080/4840 [=====>........................] - ETA: 3s - loss: 10.4514 - mean\_absolute\_error: 2.45491140/4840 [======>.......................] - ETA: 3s - loss: 10.4394 - mean\_absolute\_error: 2.45271198/4840 [======>.......................] - ETA: 3s - loss: 10.4444 - mean\_absolute\_error: 2.45321258/4840 [======>.......................] - ETA: 3s - loss: 10.4273 - mean\_absolute\_error: 2.45261316/4840 [=======>......................] - ETA: 3s - loss: 10.4108 - mean\_absolute\_error: 2.45081374/4840 [=======>......................] - ETA: 3s - loss: 10.4300 - mean\_absolute\_error: 2.45311432/4840 [=======>......................] - ETA: 3s - loss: 10.4305 - mean\_absolute\_error: 2.45281491/4840 [========>.....................] - ETA: 2s - loss: 10.4254 - mean\_absolute\_error: 2.45191550/4840 [========>.....................] - ETA: 2s - loss: 10.4069 - mean\_absolute\_error: 2.45001608/4840 [========>.....................] - ETA: 2s - loss: 10.3998 - mean\_absolute\_error: 2.44961668/4840 [=========>....................] - ETA: 2s - loss: 10.4089 - mean\_absolute\_error: 2.45081726/4840 [=========>....................] - ETA: 2s - loss: 10.4088 - mean\_absolute\_error: 2.45211781/4840 [==========>...................] - ETA: 2s - loss: 10.4096 - mean\_absolute\_error: 2.45171838/4840 [==========>...................] - ETA: 2s - loss: 10.4165 - mean\_absolute\_error: 2.45271897/4840 [==========>...................] - ETA: 2s - loss: 10.3911 - mean\_absolute\_error: 2.45021956/4840 [===========>..................] - ETA: 2s - loss: 10.3758 - mean\_absolute\_error: 2.44872015/4840 [===========>..................] - ETA: 2s - loss: 10.3767 - mean\_absolute\_error: 2.44872074/4840 [===========>..................] - ETA: 2s - loss: 10.3833 - mean\_absolute\_error: 2.44972134/4840 [============>.................] - ETA: 2s - loss: 10.3835 - mean\_absolute\_error: 2.44972194/4840 [============>.................] - ETA: 2s - loss: 10.3908 - mean\_absolute\_error: 2.45012252/4840 [============>.................] - ETA: 2s - loss: 10.3871 - mean\_absolute\_error: 2.44962312/4840 [=============>................] - ETA: 2s - loss: 10.4016 - mean\_absolute\_error: 2.45152370/4840 [=============>................] - ETA: 2s - loss: 10.4127 - mean\_absolute\_error: 2.45322428/4840 [==============>...............] - ETA: 2s - loss: 10.4295 - mean\_absolute\_error: 2.45502488/4840 [==============>...............] - ETA: 2s - loss: 10.4277 - mean\_absolute\_error: 2.45422548/4840 [==============>...............] - ETA: 1s - loss: 10.4341 - mean\_absolute\_error: 2.45542606/4840 [===============>..............] - ETA: 1s - loss: 10.4502 - mean\_absolute\_error: 2.45752666/4840 [===============>..............] - ETA: 1s - loss: 10.4530 - mean\_absolute\_error: 2.45782725/4840 [===============>..............] - ETA: 1s - loss: 10.4628 - mean\_absolute\_error: 2.45862784/4840 [================>.............] - ETA: 1s - loss: 10.4662 - mean\_absolute\_error: 2.45952842/4840 [================>.............] - ETA: 1s - loss: 10.4872 - mean\_absolute\_error: 2.46192895/4840 [================>.............] - ETA: 1s - loss: 10.4887 - mean\_absolute\_error: 2.46222952/4840 [=================>............] - ETA: 1s - loss: 10.4941 - mean\_absolute\_error: 2.46293008/4840 [=================>............] - ETA: 1s - loss: 10.5056 - mean\_absolute\_error: 2.46413064/4840 [=================>............] - ETA: 1s - loss: 10.4974 - mean\_absolute\_error: 2.46323122/4840 [==================>...........] - ETA: 1s - loss: 10.4893 - mean\_absolute\_error: 2.46153180/4840 [==================>...........] - ETA: 1s - loss: 10.4971 - mean\_absolute\_error: 2.46253239/4840 [===================>..........] - ETA: 1s - loss: 10.4973 - mean\_absolute\_error: 2.46213299/4840 [===================>..........] - ETA: 1s - loss: 10.5001 - mean\_absolute\_error: 2.46233357/4840 [===================>..........] - ETA: 1s - loss: 10.4995 - mean\_absolute\_error: 2.46193409/4840 [====================>.........] - ETA: 1s - loss: 10.5026 - mean\_absolute\_error: 2.46193456/4840 [====================>.........] - ETA: 1s - loss: 10.4975 - mean\_absolute\_error: 2.46103504/4840 [====================>.........] - ETA: 1s - loss: 10.4977 - mean\_absolute\_error: 2.46143556/4840 [=====================>........] - ETA: 1s - loss: 10.4962 - mean\_absolute\_error: 2.46113609/4840 [=====================>........] - ETA: 1s - loss: 10.4910 - mean\_absolute\_error: 2.46053662/4840 [=====================>........] - ETA: 1s - loss: 10.4913 - mean\_absolute\_error: 2.46063718/4840 [======================>.......] - ETA: 0s - loss: 10.4877 - mean\_absolute\_error: 2.46013774/4840 [======================>.......] - ETA: 0s - loss: 10.4855 - mean\_absolute\_error: 2.45953830/4840 [======================>.......] - ETA: 0s - loss: 10.4798 - mean\_absolute\_error: 2.45853885/4840 [=======================>......] - ETA: 0s - loss: 10.4913 - mean\_absolute\_error: 2.46033943/4840 [=======================>......] - ETA: 0s - loss: 10.4911 - mean\_absolute\_error: 2.46024002/4840 [=======================>......] - ETA: 0s - loss: 10.4950 - mean\_absolute\_error: 2.46084061/4840 [========================>.....] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46184119/4840 [========================>.....] - ETA: 0s - loss: 10.5030 - mean\_absolute\_error: 2.46154177/4840 [========================>.....] - ETA: 0s - loss: 10.5037 - mean\_absolute\_error: 2.46154236/4840 [=========================>....] - ETA: 0s - loss: 10.4960 - mean\_absolute\_error: 2.46054296/4840 [=========================>....] - ETA: 0s - loss: 10.4927 - mean\_absolute\_error: 2.46004355/4840 [=========================>....] - ETA: 0s - loss: 10.5000 - mean\_absolute\_error: 2.46104414/4840 [==========================>...] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46134473/4840 [==========================>...] - ETA: 0s - loss: 10.5021 - mean\_absolute\_error: 2.46164532/4840 [===========================>..] - ETA: 0s - loss: 10.5025 - mean\_absolute\_error: 2.46114591/4840 [===========================>..] - ETA: 0s - loss: 10.4999 - mean\_absolute\_error: 2.46094651/4840 [===========================>..] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46034709/4840 [============================>.] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.46024769/4840 [============================>.] - ETA: 0s - loss: 10.4975 - mean\_absolute\_error: 2.46044827/4840 [============================>.] - ETA: 0s - loss: 10.5001 - mean\_absolute\_error: 2.46074840/4840 [==============================] - 4s 923us/step - loss: 10.5030 - mean\_absolute\_error: 2.4610 - val\_loss: 11.4998 - val\_mean\_absolute\_error: 2.5819  
Epoch 88/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.7008 - mean\_absolute\_error: 2.6631 58/4840 [..............................] - ETA: 4s - loss: 10.4381 - mean\_absolute\_error: 2.4454 117/4840 [..............................] - ETA: 4s - loss: 10.1793 - mean\_absolute\_error: 2.4156 174/4840 [>.............................] - ETA: 4s - loss: 10.2708 - mean\_absolute\_error: 2.4263 232/4840 [>.............................] - ETA: 4s - loss: 10.3684 - mean\_absolute\_error: 2.4314 291/4840 [>.............................] - ETA: 3s - loss: 10.4165 - mean\_absolute\_error: 2.4457 351/4840 [=>............................] - ETA: 3s - loss: 10.3286 - mean\_absolute\_error: 2.4364 411/4840 [=>............................] - ETA: 3s - loss: 10.3205 - mean\_absolute\_error: 2.4334 470/4840 [=>............................] - ETA: 3s - loss: 10.3178 - mean\_absolute\_error: 2.4341 530/4840 [==>...........................] - ETA: 3s - loss: 10.2937 - mean\_absolute\_error: 2.4325 581/4840 [==>...........................] - ETA: 3s - loss: 10.3422 - mean\_absolute\_error: 2.4354 641/4840 [==>...........................] - ETA: 3s - loss: 10.3573 - mean\_absolute\_error: 2.4370 701/4840 [===>..........................] - ETA: 3s - loss: 10.3475 - mean\_absolute\_error: 2.4365 759/4840 [===>..........................] - ETA: 3s - loss: 10.3926 - mean\_absolute\_error: 2.4435 818/4840 [====>.........................] - ETA: 3s - loss: 10.3977 - mean\_absolute\_error: 2.4448 876/4840 [====>.........................] - ETA: 3s - loss: 10.3962 - mean\_absolute\_error: 2.4452 935/4840 [====>.........................] - ETA: 3s - loss: 10.3938 - mean\_absolute\_error: 2.4460 993/4840 [=====>........................] - ETA: 3s - loss: 10.3755 - mean\_absolute\_error: 2.44341050/4840 [=====>........................] - ETA: 3s - loss: 10.3898 - mean\_absolute\_error: 2.44551108/4840 [=====>........................] - ETA: 3s - loss: 10.4159 - mean\_absolute\_error: 2.44931167/4840 [======>.......................] - ETA: 3s - loss: 10.4271 - mean\_absolute\_error: 2.45001226/4840 [======>.......................] - ETA: 3s - loss: 10.4188 - mean\_absolute\_error: 2.44911285/4840 [======>.......................] - ETA: 3s - loss: 10.4239 - mean\_absolute\_error: 2.44991343/4840 [=======>......................] - ETA: 3s - loss: 10.4251 - mean\_absolute\_error: 2.44941402/4840 [=======>......................] - ETA: 2s - loss: 10.4229 - mean\_absolute\_error: 2.44921459/4840 [========>.....................] - ETA: 2s - loss: 10.4343 - mean\_absolute\_error: 2.45141519/4840 [========>.....................] - ETA: 2s - loss: 10.4560 - mean\_absolute\_error: 2.45481578/4840 [========>.....................] - ETA: 2s - loss: 10.4705 - mean\_absolute\_error: 2.45801638/4840 [=========>....................] - ETA: 2s - loss: 10.4898 - mean\_absolute\_error: 2.46081697/4840 [=========>....................] - ETA: 2s - loss: 10.5072 - mean\_absolute\_error: 2.46331756/4840 [=========>....................] - ETA: 2s - loss: 10.4954 - mean\_absolute\_error: 2.46121815/4840 [==========>...................] - ETA: 2s - loss: 10.5107 - mean\_absolute\_error: 2.46281875/4840 [==========>...................] - ETA: 2s - loss: 10.5146 - mean\_absolute\_error: 2.46311933/4840 [==========>...................] - ETA: 2s - loss: 10.5123 - mean\_absolute\_error: 2.46351993/4840 [===========>..................] - ETA: 2s - loss: 10.4844 - mean\_absolute\_error: 2.45982051/4840 [===========>..................] - ETA: 2s - loss: 10.4686 - mean\_absolute\_error: 2.45802101/4840 [============>.................] - ETA: 2s - loss: 10.4551 - mean\_absolute\_error: 2.45652159/4840 [============>.................] - ETA: 2s - loss: 10.4675 - mean\_absolute\_error: 2.45812218/4840 [============>.................] - ETA: 2s - loss: 10.4785 - mean\_absolute\_error: 2.45912277/4840 [=============>................] - ETA: 2s - loss: 10.4737 - mean\_absolute\_error: 2.45782336/4840 [=============>................] - ETA: 2s - loss: 10.4836 - mean\_absolute\_error: 2.45922393/4840 [=============>................] - ETA: 2s - loss: 10.4778 - mean\_absolute\_error: 2.45862451/4840 [==============>...............] - ETA: 2s - loss: 10.4872 - mean\_absolute\_error: 2.45992509/4840 [==============>...............] - ETA: 2s - loss: 10.4986 - mean\_absolute\_error: 2.46122567/4840 [==============>...............] - ETA: 1s - loss: 10.5017 - mean\_absolute\_error: 2.46122625/4840 [===============>..............] - ETA: 1s - loss: 10.5028 - mean\_absolute\_error: 2.46122683/4840 [===============>..............] - ETA: 1s - loss: 10.4904 - mean\_absolute\_error: 2.45992742/4840 [===============>..............] - ETA: 1s - loss: 10.4954 - mean\_absolute\_error: 2.46042802/4840 [================>.............] - ETA: 1s - loss: 10.5043 - mean\_absolute\_error: 2.46142862/4840 [================>.............] - ETA: 1s - loss: 10.5126 - mean\_absolute\_error: 2.46272920/4840 [=================>............] - ETA: 1s - loss: 10.5067 - mean\_absolute\_error: 2.46262972/4840 [=================>............] - ETA: 1s - loss: 10.4981 - mean\_absolute\_error: 2.46153020/4840 [=================>............] - ETA: 1s - loss: 10.5066 - mean\_absolute\_error: 2.46223067/4840 [==================>...........] - ETA: 1s - loss: 10.5078 - mean\_absolute\_error: 2.46243121/4840 [==================>...........] - ETA: 1s - loss: 10.5146 - mean\_absolute\_error: 2.46293175/4840 [==================>...........] - ETA: 1s - loss: 10.5189 - mean\_absolute\_error: 2.46363230/4840 [===================>..........] - ETA: 1s - loss: 10.5201 - mean\_absolute\_error: 2.46363281/4840 [===================>..........] - ETA: 1s - loss: 10.5309 - mean\_absolute\_error: 2.46503341/4840 [===================>..........] - ETA: 1s - loss: 10.5137 - mean\_absolute\_error: 2.46313400/4840 [====================>.........] - ETA: 1s - loss: 10.5145 - mean\_absolute\_error: 2.46313459/4840 [====================>.........] - ETA: 1s - loss: 10.5109 - mean\_absolute\_error: 2.46263518/4840 [====================>.........] - ETA: 1s - loss: 10.5162 - mean\_absolute\_error: 2.46323577/4840 [=====================>........] - ETA: 1s - loss: 10.5153 - mean\_absolute\_error: 2.46263636/4840 [=====================>........] - ETA: 1s - loss: 10.5143 - mean\_absolute\_error: 2.46213693/4840 [=====================>........] - ETA: 1s - loss: 10.5100 - mean\_absolute\_error: 2.46173752/4840 [======================>.......] - ETA: 0s - loss: 10.5181 - mean\_absolute\_error: 2.46293808/4840 [======================>.......] - ETA: 0s - loss: 10.5119 - mean\_absolute\_error: 2.46273864/4840 [======================>.......] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46353919/4840 [=======================>......] - ETA: 0s - loss: 10.5250 - mean\_absolute\_error: 2.46463975/4840 [=======================>......] - ETA: 0s - loss: 10.5276 - mean\_absolute\_error: 2.46524032/4840 [=======================>......] - ETA: 0s - loss: 10.5166 - mean\_absolute\_error: 2.46384089/4840 [========================>.....] - ETA: 0s - loss: 10.5240 - mean\_absolute\_error: 2.46484146/4840 [========================>.....] - ETA: 0s - loss: 10.5269 - mean\_absolute\_error: 2.46564204/4840 [=========================>....] - ETA: 0s - loss: 10.5334 - mean\_absolute\_error: 2.46684262/4840 [=========================>....] - ETA: 0s - loss: 10.5259 - mean\_absolute\_error: 2.46584321/4840 [=========================>....] - ETA: 0s - loss: 10.5241 - mean\_absolute\_error: 2.46544378/4840 [==========================>...] - ETA: 0s - loss: 10.5284 - mean\_absolute\_error: 2.46634427/4840 [==========================>...] - ETA: 0s - loss: 10.5239 - mean\_absolute\_error: 2.46574469/4840 [==========================>...] - ETA: 0s - loss: 10.5213 - mean\_absolute\_error: 2.46544497/4840 [==========================>...] - ETA: 0s - loss: 10.5230 - mean\_absolute\_error: 2.46594525/4840 [===========================>..] - ETA: 0s - loss: 10.5197 - mean\_absolute\_error: 2.46564557/4840 [===========================>..] - ETA: 0s - loss: 10.5206 - mean\_absolute\_error: 2.46554589/4840 [===========================>..] - ETA: 0s - loss: 10.5189 - mean\_absolute\_error: 2.46514625/4840 [===========================>..] - ETA: 0s - loss: 10.5161 - mean\_absolute\_error: 2.46474662/4840 [===========================>..] - ETA: 0s - loss: 10.5070 - mean\_absolute\_error: 2.46334706/4840 [============================>.] - ETA: 0s - loss: 10.5035 - mean\_absolute\_error: 2.46294757/4840 [============================>.] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46244812/4840 [============================>.] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46304840/4840 [==============================] - 5s 955us/step - loss: 10.5022 - mean\_absolute\_error: 2.4630 - val\_loss: 11.4969 - val\_mean\_absolute\_error: 2.5807  
Epoch 89/100  
 1/4840 [..............................] - ETA: 4s - loss: 5.8284 - mean\_absolute\_error: 1.6807 54/4840 [..............................] - ETA: 4s - loss: 10.3640 - mean\_absolute\_error: 2.4375 101/4840 [..............................] - ETA: 4s - loss: 10.3846 - mean\_absolute\_error: 2.4452 150/4840 [..............................] - ETA: 4s - loss: 10.3210 - mean\_absolute\_error: 2.4352 197/4840 [>.............................] - ETA: 4s - loss: 10.3414 - mean\_absolute\_error: 2.4404 248/4840 [>.............................] - ETA: 4s - loss: 10.2592 - mean\_absolute\_error: 2.4337 305/4840 [>.............................] - ETA: 4s - loss: 10.3520 - mean\_absolute\_error: 2.4422 363/4840 [=>............................] - ETA: 4s - loss: 10.2208 - mean\_absolute\_error: 2.4239 418/4840 [=>............................] - ETA: 4s - loss: 10.2927 - mean\_absolute\_error: 2.4324 474/4840 [=>............................] - ETA: 4s - loss: 10.2995 - mean\_absolute\_error: 2.4345 533/4840 [==>...........................] - ETA: 4s - loss: 10.3054 - mean\_absolute\_error: 2.4331 591/4840 [==>...........................] - ETA: 3s - loss: 10.3089 - mean\_absolute\_error: 2.4345 644/4840 [==>...........................] - ETA: 3s - loss: 10.3619 - mean\_absolute\_error: 2.4403 700/4840 [===>..........................] - ETA: 3s - loss: 10.3890 - mean\_absolute\_error: 2.4427 753/4840 [===>..........................] - ETA: 3s - loss: 10.3765 - mean\_absolute\_error: 2.4427 809/4840 [====>.........................] - ETA: 3s - loss: 10.3965 - mean\_absolute\_error: 2.4457 868/4840 [====>.........................] - ETA: 3s - loss: 10.3963 - mean\_absolute\_error: 2.4469 924/4840 [====>.........................] - ETA: 3s - loss: 10.3866 - mean\_absolute\_error: 2.4463 982/4840 [=====>........................] - ETA: 3s - loss: 10.4180 - mean\_absolute\_error: 2.45031025/4840 [=====>........................] - ETA: 3s - loss: 10.4238 - mean\_absolute\_error: 2.45141067/4840 [=====>........................] - ETA: 3s - loss: 10.4220 - mean\_absolute\_error: 2.45221120/4840 [=====>........................] - ETA: 3s - loss: 10.4063 - mean\_absolute\_error: 2.45031173/4840 [======>.......................] - ETA: 3s - loss: 10.4023 - mean\_absolute\_error: 2.45051224/4840 [======>.......................] - ETA: 3s - loss: 10.3860 - mean\_absolute\_error: 2.44751275/4840 [======>.......................] - ETA: 3s - loss: 10.3788 - mean\_absolute\_error: 2.44571324/4840 [=======>......................] - ETA: 3s - loss: 10.3664 - mean\_absolute\_error: 2.44391372/4840 [=======>......................] - ETA: 3s - loss: 10.3896 - mean\_absolute\_error: 2.44621419/4840 [=======>......................] - ETA: 3s - loss: 10.4217 - mean\_absolute\_error: 2.45021465/4840 [========>.....................] - ETA: 3s - loss: 10.4248 - mean\_absolute\_error: 2.45131515/4840 [========>.....................] - ETA: 3s - loss: 10.4135 - mean\_absolute\_error: 2.45051566/4840 [========>.....................] - ETA: 3s - loss: 10.4037 - mean\_absolute\_error: 2.45021618/4840 [=========>....................] - ETA: 3s - loss: 10.4000 - mean\_absolute\_error: 2.45031664/4840 [=========>....................] - ETA: 3s - loss: 10.4094 - mean\_absolute\_error: 2.45141712/4840 [=========>....................] - ETA: 3s - loss: 10.4063 - mean\_absolute\_error: 2.45031761/4840 [=========>....................] - ETA: 2s - loss: 10.3886 - mean\_absolute\_error: 2.44821810/4840 [==========>...................] - ETA: 2s - loss: 10.3852 - mean\_absolute\_error: 2.44811861/4840 [==========>...................] - ETA: 2s - loss: 10.3930 - mean\_absolute\_error: 2.44971912/4840 [==========>...................] - ETA: 2s - loss: 10.4071 - mean\_absolute\_error: 2.45131959/4840 [===========>..................] - ETA: 2s - loss: 10.4139 - mean\_absolute\_error: 2.45262008/4840 [===========>..................] - ETA: 2s - loss: 10.4083 - mean\_absolute\_error: 2.45192059/4840 [===========>..................] - ETA: 2s - loss: 10.4111 - mean\_absolute\_error: 2.45252109/4840 [============>.................] - ETA: 2s - loss: 10.4098 - mean\_absolute\_error: 2.45172164/4840 [============>.................] - ETA: 2s - loss: 10.4120 - mean\_absolute\_error: 2.45182220/4840 [============>.................] - ETA: 2s - loss: 10.4153 - mean\_absolute\_error: 2.45192277/4840 [=============>................] - ETA: 2s - loss: 10.4199 - mean\_absolute\_error: 2.45202335/4840 [=============>................] - ETA: 2s - loss: 10.4168 - mean\_absolute\_error: 2.45182394/4840 [=============>................] - ETA: 2s - loss: 10.4279 - mean\_absolute\_error: 2.45332452/4840 [==============>...............] - ETA: 2s - loss: 10.4287 - mean\_absolute\_error: 2.45322510/4840 [==============>...............] - ETA: 2s - loss: 10.4293 - mean\_absolute\_error: 2.45272566/4840 [==============>...............] - ETA: 2s - loss: 10.4319 - mean\_absolute\_error: 2.45262609/4840 [===============>..............] - ETA: 2s - loss: 10.4316 - mean\_absolute\_error: 2.45252667/4840 [===============>..............] - ETA: 2s - loss: 10.4279 - mean\_absolute\_error: 2.45152725/4840 [===============>..............] - ETA: 2s - loss: 10.4484 - mean\_absolute\_error: 2.45392783/4840 [================>.............] - ETA: 1s - loss: 10.4447 - mean\_absolute\_error: 2.45362841/4840 [================>.............] - ETA: 1s - loss: 10.4421 - mean\_absolute\_error: 2.45292897/4840 [================>.............] - ETA: 1s - loss: 10.4538 - mean\_absolute\_error: 2.45442949/4840 [=================>............] - ETA: 1s - loss: 10.4577 - mean\_absolute\_error: 2.45503000/4840 [=================>............] - ETA: 1s - loss: 10.4651 - mean\_absolute\_error: 2.45533047/4840 [=================>............] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45373101/4840 [==================>...........] - ETA: 1s - loss: 10.4477 - mean\_absolute\_error: 2.45263158/4840 [==================>...........] - ETA: 1s - loss: 10.4514 - mean\_absolute\_error: 2.45323216/4840 [==================>...........] - ETA: 1s - loss: 10.4540 - mean\_absolute\_error: 2.45363276/4840 [===================>..........] - ETA: 1s - loss: 10.4616 - mean\_absolute\_error: 2.45453333/4840 [===================>..........] - ETA: 1s - loss: 10.4670 - mean\_absolute\_error: 2.45513390/4840 [====================>.........] - ETA: 1s - loss: 10.4724 - mean\_absolute\_error: 2.45583447/4840 [====================>.........] - ETA: 1s - loss: 10.4609 - mean\_absolute\_error: 2.45493501/4840 [====================>.........] - ETA: 1s - loss: 10.4702 - mean\_absolute\_error: 2.45583559/4840 [=====================>........] - ETA: 1s - loss: 10.4641 - mean\_absolute\_error: 2.45503616/4840 [=====================>........] - ETA: 1s - loss: 10.4711 - mean\_absolute\_error: 2.45643671/4840 [=====================>........] - ETA: 1s - loss: 10.4776 - mean\_absolute\_error: 2.45723723/4840 [======================>.......] - ETA: 1s - loss: 10.4878 - mean\_absolute\_error: 2.45853779/4840 [======================>.......] - ETA: 1s - loss: 10.4901 - mean\_absolute\_error: 2.45873827/4840 [======================>.......] - ETA: 0s - loss: 10.4888 - mean\_absolute\_error: 2.45863876/4840 [=======================>......] - ETA: 0s - loss: 10.4915 - mean\_absolute\_error: 2.45893934/4840 [=======================>......] - ETA: 0s - loss: 10.4895 - mean\_absolute\_error: 2.45913993/4840 [=======================>......] - ETA: 0s - loss: 10.4946 - mean\_absolute\_error: 2.46004050/4840 [========================>.....] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.45954104/4840 [========================>.....] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46054161/4840 [========================>.....] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46044218/4840 [=========================>....] - ETA: 0s - loss: 10.5135 - mean\_absolute\_error: 2.46194278/4840 [=========================>....] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46264337/4840 [=========================>....] - ETA: 0s - loss: 10.5150 - mean\_absolute\_error: 2.46274397/4840 [==========================>...] - ETA: 0s - loss: 10.5051 - mean\_absolute\_error: 2.46124455/4840 [==========================>...] - ETA: 0s - loss: 10.5006 - mean\_absolute\_error: 2.46054513/4840 [==========================>...] - ETA: 0s - loss: 10.4916 - mean\_absolute\_error: 2.45934572/4840 [===========================>..] - ETA: 0s - loss: 10.4862 - mean\_absolute\_error: 2.45864629/4840 [===========================>..] - ETA: 0s - loss: 10.4860 - mean\_absolute\_error: 2.45864686/4840 [============================>.] - ETA: 0s - loss: 10.4871 - mean\_absolute\_error: 2.45874736/4840 [============================>.] - ETA: 0s - loss: 10.4929 - mean\_absolute\_error: 2.45934786/4840 [============================>.] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46004836/4840 [============================>.] - ETA: 0s - loss: 10.5026 - mean\_absolute\_error: 2.46044840/4840 [==============================] - 5s 985us/step - loss: 10.5036 - mean\_absolute\_error: 2.4605 - val\_loss: 11.4998 - val\_mean\_absolute\_error: 2.5814  
Epoch 90/100  
 1/4840 [..............................] - ETA: 9s - loss: 12.2214 - mean\_absolute\_error: 2.6437 56/4840 [..............................] - ETA: 4s - loss: 10.6032 - mean\_absolute\_error: 2.4764 110/4840 [..............................] - ETA: 4s - loss: 10.5986 - mean\_absolute\_error: 2.4727 168/4840 [>.............................] - ETA: 4s - loss: 10.7522 - mean\_absolute\_error: 2.5048 227/4840 [>.............................] - ETA: 4s - loss: 10.8753 - mean\_absolute\_error: 2.5212 285/4840 [>.............................] - ETA: 4s - loss: 10.7451 - mean\_absolute\_error: 2.4992 340/4840 [=>............................] - ETA: 4s - loss: 10.6571 - mean\_absolute\_error: 2.4822 395/4840 [=>............................] - ETA: 4s - loss: 10.6661 - mean\_absolute\_error: 2.4875 450/4840 [=>............................] - ETA: 3s - loss: 10.6552 - mean\_absolute\_error: 2.4881 505/4840 [==>...........................] - ETA: 3s - loss: 10.6267 - mean\_absolute\_error: 2.4822 562/4840 [==>...........................] - ETA: 3s - loss: 10.6405 - mean\_absolute\_error: 2.4852 620/4840 [==>...........................] - ETA: 3s - loss: 10.6052 - mean\_absolute\_error: 2.4777 679/4840 [===>..........................] - ETA: 3s - loss: 10.6133 - mean\_absolute\_error: 2.4800 735/4840 [===>..........................] - ETA: 3s - loss: 10.6143 - mean\_absolute\_error: 2.4810 793/4840 [===>..........................] - ETA: 3s - loss: 10.5855 - mean\_absolute\_error: 2.4762 839/4840 [====>.........................] - ETA: 3s - loss: 10.5545 - mean\_absolute\_error: 2.4722 894/4840 [====>.........................] - ETA: 3s - loss: 10.4959 - mean\_absolute\_error: 2.4628 927/4840 [====>.........................] - ETA: 3s - loss: 10.4872 - mean\_absolute\_error: 2.4616 966/4840 [====>.........................] - ETA: 3s - loss: 10.4917 - mean\_absolute\_error: 2.46291025/4840 [=====>........................] - ETA: 3s - loss: 10.5111 - mean\_absolute\_error: 2.46601082/4840 [=====>........................] - ETA: 3s - loss: 10.5332 - mean\_absolute\_error: 2.46951138/4840 [======>.......................] - ETA: 3s - loss: 10.5288 - mean\_absolute\_error: 2.46941193/4840 [======>.......................] - ETA: 3s - loss: 10.5212 - mean\_absolute\_error: 2.46791247/4840 [======>.......................] - ETA: 3s - loss: 10.5253 - mean\_absolute\_error: 2.46821297/4840 [=======>......................] - ETA: 3s - loss: 10.4823 - mean\_absolute\_error: 2.46201341/4840 [=======>......................] - ETA: 3s - loss: 10.4603 - mean\_absolute\_error: 2.45981392/4840 [=======>......................] - ETA: 3s - loss: 10.4847 - mean\_absolute\_error: 2.46231443/4840 [=======>......................] - ETA: 3s - loss: 10.5001 - mean\_absolute\_error: 2.46451497/4840 [========>.....................] - ETA: 3s - loss: 10.4869 - mean\_absolute\_error: 2.46211556/4840 [========>.....................] - ETA: 3s - loss: 10.4895 - mean\_absolute\_error: 2.46141610/4840 [========>.....................] - ETA: 3s - loss: 10.4893 - mean\_absolute\_error: 2.46101657/4840 [=========>....................] - ETA: 3s - loss: 10.4917 - mean\_absolute\_error: 2.46131709/4840 [=========>....................] - ETA: 2s - loss: 10.4937 - mean\_absolute\_error: 2.46181764/4840 [=========>....................] - ETA: 2s - loss: 10.4938 - mean\_absolute\_error: 2.46101820/4840 [==========>...................] - ETA: 2s - loss: 10.4908 - mean\_absolute\_error: 2.46101877/4840 [==========>...................] - ETA: 2s - loss: 10.4957 - mean\_absolute\_error: 2.46041933/4840 [==========>...................] - ETA: 2s - loss: 10.5163 - mean\_absolute\_error: 2.46261990/4840 [===========>..................] - ETA: 2s - loss: 10.5166 - mean\_absolute\_error: 2.46242046/4840 [===========>..................] - ETA: 2s - loss: 10.5109 - mean\_absolute\_error: 2.46182102/4840 [============>.................] - ETA: 2s - loss: 10.4985 - mean\_absolute\_error: 2.46042158/4840 [============>.................] - ETA: 2s - loss: 10.5058 - mean\_absolute\_error: 2.46162210/4840 [============>.................] - ETA: 2s - loss: 10.4855 - mean\_absolute\_error: 2.45842259/4840 [=============>................] - ETA: 2s - loss: 10.4959 - mean\_absolute\_error: 2.46062311/4840 [=============>................] - ETA: 2s - loss: 10.5068 - mean\_absolute\_error: 2.46202365/4840 [=============>................] - ETA: 2s - loss: 10.5131 - mean\_absolute\_error: 2.46262420/4840 [==============>...............] - ETA: 2s - loss: 10.5067 - mean\_absolute\_error: 2.46202473/4840 [==============>...............] - ETA: 2s - loss: 10.5057 - mean\_absolute\_error: 2.46212530/4840 [==============>...............] - ETA: 2s - loss: 10.5086 - mean\_absolute\_error: 2.46342588/4840 [===============>..............] - ETA: 2s - loss: 10.5086 - mean\_absolute\_error: 2.46292645/4840 [===============>..............] - ETA: 2s - loss: 10.5060 - mean\_absolute\_error: 2.46312701/4840 [===============>..............] - ETA: 1s - loss: 10.5128 - mean\_absolute\_error: 2.46432759/4840 [================>.............] - ETA: 1s - loss: 10.5088 - mean\_absolute\_error: 2.46422815/4840 [================>.............] - ETA: 1s - loss: 10.5142 - mean\_absolute\_error: 2.46472871/4840 [================>.............] - ETA: 1s - loss: 10.5215 - mean\_absolute\_error: 2.46512920/4840 [=================>............] - ETA: 1s - loss: 10.5252 - mean\_absolute\_error: 2.46512970/4840 [=================>............] - ETA: 1s - loss: 10.5160 - mean\_absolute\_error: 2.46413016/4840 [=================>............] - ETA: 1s - loss: 10.5078 - mean\_absolute\_error: 2.46293070/4840 [==================>...........] - ETA: 1s - loss: 10.5097 - mean\_absolute\_error: 2.46323129/4840 [==================>...........] - ETA: 1s - loss: 10.5129 - mean\_absolute\_error: 2.46363188/4840 [==================>...........] - ETA: 1s - loss: 10.5091 - mean\_absolute\_error: 2.46343245/4840 [===================>..........] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46333304/4840 [===================>..........] - ETA: 1s - loss: 10.5058 - mean\_absolute\_error: 2.46363362/4840 [===================>..........] - ETA: 1s - loss: 10.5091 - mean\_absolute\_error: 2.46413419/4840 [====================>.........] - ETA: 1s - loss: 10.5000 - mean\_absolute\_error: 2.46283479/4840 [====================>.........] - ETA: 1s - loss: 10.5010 - mean\_absolute\_error: 2.46313537/4840 [====================>.........] - ETA: 1s - loss: 10.5014 - mean\_absolute\_error: 2.46323596/4840 [=====================>........] - ETA: 1s - loss: 10.5002 - mean\_absolute\_error: 2.46303653/4840 [=====================>........] - ETA: 1s - loss: 10.5047 - mean\_absolute\_error: 2.46393711/4840 [======================>.......] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46423768/4840 [======================>.......] - ETA: 0s - loss: 10.5024 - mean\_absolute\_error: 2.46363826/4840 [======================>.......] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46353885/4840 [=======================>......] - ETA: 0s - loss: 10.5023 - mean\_absolute\_error: 2.46293943/4840 [=======================>......] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46304001/4840 [=======================>......] - ETA: 0s - loss: 10.5084 - mean\_absolute\_error: 2.46364059/4840 [========================>.....] - ETA: 0s - loss: 10.5165 - mean\_absolute\_error: 2.46484118/4840 [========================>.....] - ETA: 0s - loss: 10.5176 - mean\_absolute\_error: 2.46484177/4840 [========================>.....] - ETA: 0s - loss: 10.5205 - mean\_absolute\_error: 2.46514234/4840 [=========================>....] - ETA: 0s - loss: 10.5123 - mean\_absolute\_error: 2.46434281/4840 [=========================>....] - ETA: 0s - loss: 10.5087 - mean\_absolute\_error: 2.46374336/4840 [=========================>....] - ETA: 0s - loss: 10.5077 - mean\_absolute\_error: 2.46354395/4840 [==========================>...] - ETA: 0s - loss: 10.5044 - mean\_absolute\_error: 2.46304453/4840 [==========================>...] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46314512/4840 [==========================>...] - ETA: 0s - loss: 10.4955 - mean\_absolute\_error: 2.46214569/4840 [===========================>..] - ETA: 0s - loss: 10.5039 - mean\_absolute\_error: 2.46324625/4840 [===========================>..] - ETA: 0s - loss: 10.5059 - mean\_absolute\_error: 2.46304683/4840 [============================>.] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46254743/4840 [============================>.] - ETA: 0s - loss: 10.5030 - mean\_absolute\_error: 2.46244801/4840 [============================>.] - ETA: 0s - loss: 10.4990 - mean\_absolute\_error: 2.46174840/4840 [==============================] - 5s 956us/step - loss: 10.5019 - mean\_absolute\_error: 2.4619 - val\_loss: 11.5018 - val\_mean\_absolute\_error: 2.5810  
Epoch 91/100  
 1/4840 [..............................] - ETA: 9s - loss: 11.4447 - mean\_absolute\_error: 2.5618 60/4840 [..............................] - ETA: 4s - loss: 10.0603 - mean\_absolute\_error: 2.3953 119/4840 [..............................] - ETA: 4s - loss: 10.2932 - mean\_absolute\_error: 2.4286 178/4840 [>.............................] - ETA: 3s - loss: 10.3647 - mean\_absolute\_error: 2.4390 235/4840 [>.............................] - ETA: 3s - loss: 10.4573 - mean\_absolute\_error: 2.4464 289/4840 [>.............................] - ETA: 3s - loss: 10.5226 - mean\_absolute\_error: 2.4619 348/4840 [=>............................] - ETA: 3s - loss: 10.5820 - mean\_absolute\_error: 2.4711 406/4840 [=>............................] - ETA: 3s - loss: 10.6358 - mean\_absolute\_error: 2.4793 464/4840 [=>............................] - ETA: 3s - loss: 10.6263 - mean\_absolute\_error: 2.4768 522/4840 [==>...........................] - ETA: 3s - loss: 10.5692 - mean\_absolute\_error: 2.4716 580/4840 [==>...........................] - ETA: 3s - loss: 10.5404 - mean\_absolute\_error: 2.4695 638/4840 [==>...........................] - ETA: 3s - loss: 10.5031 - mean\_absolute\_error: 2.4652 695/4840 [===>..........................] - ETA: 3s - loss: 10.4889 - mean\_absolute\_error: 2.4619 751/4840 [===>..........................] - ETA: 3s - loss: 10.5273 - mean\_absolute\_error: 2.4648 808/4840 [====>.........................] - ETA: 3s - loss: 10.5197 - mean\_absolute\_error: 2.4650 865/4840 [====>.........................] - ETA: 3s - loss: 10.5232 - mean\_absolute\_error: 2.4646 923/4840 [====>.........................] - ETA: 3s - loss: 10.5091 - mean\_absolute\_error: 2.4646 981/4840 [=====>........................] - ETA: 3s - loss: 10.5079 - mean\_absolute\_error: 2.46541040/4840 [=====>........................] - ETA: 3s - loss: 10.5333 - mean\_absolute\_error: 2.46831097/4840 [=====>........................] - ETA: 3s - loss: 10.5358 - mean\_absolute\_error: 2.46871156/4840 [======>.......................] - ETA: 3s - loss: 10.4978 - mean\_absolute\_error: 2.46371211/4840 [======>.......................] - ETA: 3s - loss: 10.5136 - mean\_absolute\_error: 2.46521262/4840 [======>.......................] - ETA: 3s - loss: 10.5312 - mean\_absolute\_error: 2.46591318/4840 [=======>......................] - ETA: 3s - loss: 10.5260 - mean\_absolute\_error: 2.46681377/4840 [=======>......................] - ETA: 3s - loss: 10.5267 - mean\_absolute\_error: 2.46651435/4840 [=======>......................] - ETA: 2s - loss: 10.5263 - mean\_absolute\_error: 2.46661495/4840 [========>.....................] - ETA: 2s - loss: 10.4933 - mean\_absolute\_error: 2.46191552/4840 [========>.....................] - ETA: 2s - loss: 10.4923 - mean\_absolute\_error: 2.46151610/4840 [========>.....................] - ETA: 2s - loss: 10.4896 - mean\_absolute\_error: 2.46051667/4840 [=========>....................] - ETA: 2s - loss: 10.4924 - mean\_absolute\_error: 2.46141726/4840 [=========>....................] - ETA: 2s - loss: 10.4839 - mean\_absolute\_error: 2.45951785/4840 [==========>...................] - ETA: 2s - loss: 10.4836 - mean\_absolute\_error: 2.45931842/4840 [==========>...................] - ETA: 2s - loss: 10.4871 - mean\_absolute\_error: 2.45951901/4840 [==========>...................] - ETA: 2s - loss: 10.4901 - mean\_absolute\_error: 2.45981961/4840 [===========>..................] - ETA: 2s - loss: 10.4899 - mean\_absolute\_error: 2.46032021/4840 [===========>..................] - ETA: 2s - loss: 10.5054 - mean\_absolute\_error: 2.46212081/4840 [===========>..................] - ETA: 2s - loss: 10.5067 - mean\_absolute\_error: 2.46222141/4840 [============>.................] - ETA: 2s - loss: 10.5147 - mean\_absolute\_error: 2.46362201/4840 [============>.................] - ETA: 2s - loss: 10.5207 - mean\_absolute\_error: 2.46462258/4840 [============>.................] - ETA: 2s - loss: 10.5053 - mean\_absolute\_error: 2.46212316/4840 [=============>................] - ETA: 2s - loss: 10.4996 - mean\_absolute\_error: 2.46142376/4840 [=============>................] - ETA: 2s - loss: 10.4876 - mean\_absolute\_error: 2.46032434/4840 [==============>...............] - ETA: 2s - loss: 10.4824 - mean\_absolute\_error: 2.45942493/4840 [==============>...............] - ETA: 2s - loss: 10.4767 - mean\_absolute\_error: 2.45942553/4840 [==============>...............] - ETA: 1s - loss: 10.4651 - mean\_absolute\_error: 2.45752612/4840 [===============>..............] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45572671/4840 [===============>..............] - ETA: 1s - loss: 10.4600 - mean\_absolute\_error: 2.45712730/4840 [===============>..............] - ETA: 1s - loss: 10.4653 - mean\_absolute\_error: 2.45822790/4840 [================>.............] - ETA: 1s - loss: 10.4683 - mean\_absolute\_error: 2.45912849/4840 [================>.............] - ETA: 1s - loss: 10.4693 - mean\_absolute\_error: 2.45912908/4840 [=================>............] - ETA: 1s - loss: 10.4821 - mean\_absolute\_error: 2.46092967/4840 [=================>............] - ETA: 1s - loss: 10.4909 - mean\_absolute\_error: 2.46193025/4840 [=================>............] - ETA: 1s - loss: 10.4862 - mean\_absolute\_error: 2.46113084/4840 [==================>...........] - ETA: 1s - loss: 10.4918 - mean\_absolute\_error: 2.46193142/4840 [==================>...........] - ETA: 1s - loss: 10.4897 - mean\_absolute\_error: 2.46173202/4840 [==================>...........] - ETA: 1s - loss: 10.4927 - mean\_absolute\_error: 2.46193261/4840 [===================>..........] - ETA: 1s - loss: 10.5031 - mean\_absolute\_error: 2.46283320/4840 [===================>..........] - ETA: 1s - loss: 10.5076 - mean\_absolute\_error: 2.46363378/4840 [===================>..........] - ETA: 1s - loss: 10.5028 - mean\_absolute\_error: 2.46343436/4840 [====================>.........] - ETA: 1s - loss: 10.5040 - mean\_absolute\_error: 2.46263495/4840 [====================>.........] - ETA: 1s - loss: 10.5140 - mean\_absolute\_error: 2.46403554/4840 [=====================>........] - ETA: 1s - loss: 10.5141 - mean\_absolute\_error: 2.46393614/4840 [=====================>........] - ETA: 1s - loss: 10.5140 - mean\_absolute\_error: 2.46323673/4840 [=====================>........] - ETA: 1s - loss: 10.5078 - mean\_absolute\_error: 2.46253732/4840 [======================>.......] - ETA: 0s - loss: 10.5096 - mean\_absolute\_error: 2.46253791/4840 [======================>.......] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46183850/4840 [======================>.......] - ETA: 0s - loss: 10.5123 - mean\_absolute\_error: 2.46223908/4840 [=======================>......] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46153968/4840 [=======================>......] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46144026/4840 [=======================>......] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46044085/4840 [========================>.....] - ETA: 0s - loss: 10.5018 - mean\_absolute\_error: 2.46084145/4840 [========================>.....] - ETA: 0s - loss: 10.4986 - mean\_absolute\_error: 2.46034204/4840 [=========================>....] - ETA: 0s - loss: 10.5048 - mean\_absolute\_error: 2.46114261/4840 [=========================>....] - ETA: 0s - loss: 10.5045 - mean\_absolute\_error: 2.46104320/4840 [=========================>....] - ETA: 0s - loss: 10.5091 - mean\_absolute\_error: 2.46164378/4840 [==========================>...] - ETA: 0s - loss: 10.5112 - mean\_absolute\_error: 2.46204435/4840 [==========================>...] - ETA: 0s - loss: 10.5133 - mean\_absolute\_error: 2.46274493/4840 [==========================>...] - ETA: 0s - loss: 10.5155 - mean\_absolute\_error: 2.46294553/4840 [===========================>..] - ETA: 0s - loss: 10.5107 - mean\_absolute\_error: 2.46234610/4840 [===========================>..] - ETA: 0s - loss: 10.5147 - mean\_absolute\_error: 2.46264668/4840 [===========================>..] - ETA: 0s - loss: 10.5091 - mean\_absolute\_error: 2.46194727/4840 [============================>.] - ETA: 0s - loss: 10.5027 - mean\_absolute\_error: 2.46144787/4840 [============================>.] - ETA: 0s - loss: 10.5058 - mean\_absolute\_error: 2.46184840/4840 [==============================] - 4s 908us/step - loss: 10.5025 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4975 - val\_mean\_absolute\_error: 2.5804  
Epoch 92/100  
 1/4840 [..............................] - ETA: 9s - loss: 4.6235 - mean\_absolute\_error: 1.6126 60/4840 [..............................] - ETA: 4s - loss: 10.4074 - mean\_absolute\_error: 2.4466 119/4840 [..............................] - ETA: 4s - loss: 10.7305 - mean\_absolute\_error: 2.5016 176/4840 [>.............................] - ETA: 4s - loss: 10.6586 - mean\_absolute\_error: 2.4898 235/4840 [>.............................] - ETA: 3s - loss: 10.5560 - mean\_absolute\_error: 2.4675 291/4840 [>.............................] - ETA: 3s - loss: 10.6143 - mean\_absolute\_error: 2.4770 346/4840 [=>............................] - ETA: 3s - loss: 10.4582 - mean\_absolute\_error: 2.4585 405/4840 [=>............................] - ETA: 3s - loss: 10.4888 - mean\_absolute\_error: 2.4603 463/4840 [=>............................] - ETA: 3s - loss: 10.4554 - mean\_absolute\_error: 2.4544 520/4840 [==>...........................] - ETA: 3s - loss: 10.4206 - mean\_absolute\_error: 2.4496 580/4840 [==>...........................] - ETA: 3s - loss: 10.4214 - mean\_absolute\_error: 2.4477 639/4840 [==>...........................] - ETA: 3s - loss: 10.4762 - mean\_absolute\_error: 2.4538 697/4840 [===>..........................] - ETA: 3s - loss: 10.4492 - mean\_absolute\_error: 2.4494 755/4840 [===>..........................] - ETA: 3s - loss: 10.3949 - mean\_absolute\_error: 2.4415 811/4840 [====>.........................] - ETA: 3s - loss: 10.3888 - mean\_absolute\_error: 2.4419 868/4840 [====>.........................] - ETA: 3s - loss: 10.4127 - mean\_absolute\_error: 2.4484 927/4840 [====>.........................] - ETA: 3s - loss: 10.4064 - mean\_absolute\_error: 2.4464 986/4840 [=====>........................] - ETA: 3s - loss: 10.4201 - mean\_absolute\_error: 2.44711045/4840 [=====>........................] - ETA: 3s - loss: 10.4375 - mean\_absolute\_error: 2.45021103/4840 [=====>........................] - ETA: 3s - loss: 10.4527 - mean\_absolute\_error: 2.45231162/4840 [======>.......................] - ETA: 3s - loss: 10.4756 - mean\_absolute\_error: 2.45601220/4840 [======>.......................] - ETA: 3s - loss: 10.4262 - mean\_absolute\_error: 2.44941279/4840 [======>.......................] - ETA: 3s - loss: 10.4405 - mean\_absolute\_error: 2.45071336/4840 [=======>......................] - ETA: 3s - loss: 10.4540 - mean\_absolute\_error: 2.45181394/4840 [=======>......................] - ETA: 2s - loss: 10.4584 - mean\_absolute\_error: 2.45311451/4840 [=======>......................] - ETA: 2s - loss: 10.4666 - mean\_absolute\_error: 2.45421506/4840 [========>.....................] - ETA: 2s - loss: 10.4766 - mean\_absolute\_error: 2.45641562/4840 [========>.....................] - ETA: 2s - loss: 10.4652 - mean\_absolute\_error: 2.45521621/4840 [=========>....................] - ETA: 2s - loss: 10.4533 - mean\_absolute\_error: 2.45311680/4840 [=========>....................] - ETA: 2s - loss: 10.4514 - mean\_absolute\_error: 2.45361738/4840 [=========>....................] - ETA: 2s - loss: 10.4509 - mean\_absolute\_error: 2.45321791/4840 [==========>...................] - ETA: 2s - loss: 10.4481 - mean\_absolute\_error: 2.45181843/4840 [==========>...................] - ETA: 2s - loss: 10.4394 - mean\_absolute\_error: 2.45021899/4840 [==========>...................] - ETA: 2s - loss: 10.4514 - mean\_absolute\_error: 2.45201955/4840 [===========>..................] - ETA: 2s - loss: 10.4724 - mean\_absolute\_error: 2.45452006/4840 [===========>..................] - ETA: 2s - loss: 10.4704 - mean\_absolute\_error: 2.45432064/4840 [===========>..................] - ETA: 2s - loss: 10.4514 - mean\_absolute\_error: 2.45092123/4840 [============>.................] - ETA: 2s - loss: 10.4335 - mean\_absolute\_error: 2.44902184/4840 [============>.................] - ETA: 2s - loss: 10.4606 - mean\_absolute\_error: 2.45292243/4840 [============>.................] - ETA: 2s - loss: 10.4593 - mean\_absolute\_error: 2.45312302/4840 [=============>................] - ETA: 2s - loss: 10.4668 - mean\_absolute\_error: 2.45412359/4840 [=============>................] - ETA: 2s - loss: 10.4714 - mean\_absolute\_error: 2.45492418/4840 [=============>................] - ETA: 2s - loss: 10.4811 - mean\_absolute\_error: 2.45622475/4840 [==============>...............] - ETA: 2s - loss: 10.4663 - mean\_absolute\_error: 2.45452535/4840 [==============>...............] - ETA: 2s - loss: 10.4557 - mean\_absolute\_error: 2.45322594/4840 [===============>..............] - ETA: 1s - loss: 10.4696 - mean\_absolute\_error: 2.45502653/4840 [===============>..............] - ETA: 1s - loss: 10.4702 - mean\_absolute\_error: 2.45552711/4840 [===============>..............] - ETA: 1s - loss: 10.4825 - mean\_absolute\_error: 2.45702770/4840 [================>.............] - ETA: 1s - loss: 10.4901 - mean\_absolute\_error: 2.45842829/4840 [================>.............] - ETA: 1s - loss: 10.4959 - mean\_absolute\_error: 2.45912880/4840 [================>.............] - ETA: 1s - loss: 10.4934 - mean\_absolute\_error: 2.45912930/4840 [=================>............] - ETA: 1s - loss: 10.4835 - mean\_absolute\_error: 2.45802979/4840 [=================>............] - ETA: 1s - loss: 10.4839 - mean\_absolute\_error: 2.45813027/4840 [=================>............] - ETA: 1s - loss: 10.4702 - mean\_absolute\_error: 2.45633075/4840 [==================>...........] - ETA: 1s - loss: 10.4667 - mean\_absolute\_error: 2.45603130/4840 [==================>...........] - ETA: 1s - loss: 10.4675 - mean\_absolute\_error: 2.45623186/4840 [==================>...........] - ETA: 1s - loss: 10.4641 - mean\_absolute\_error: 2.45573244/4840 [===================>..........] - ETA: 1s - loss: 10.4632 - mean\_absolute\_error: 2.45603303/4840 [===================>..........] - ETA: 1s - loss: 10.4555 - mean\_absolute\_error: 2.45493361/4840 [===================>..........] - ETA: 1s - loss: 10.4582 - mean\_absolute\_error: 2.45553415/4840 [====================>.........] - ETA: 1s - loss: 10.4526 - mean\_absolute\_error: 2.45493472/4840 [====================>.........] - ETA: 1s - loss: 10.4499 - mean\_absolute\_error: 2.45473530/4840 [====================>.........] - ETA: 1s - loss: 10.4435 - mean\_absolute\_error: 2.45363588/4840 [=====================>........] - ETA: 1s - loss: 10.4506 - mean\_absolute\_error: 2.45493648/4840 [=====================>........] - ETA: 1s - loss: 10.4504 - mean\_absolute\_error: 2.45483708/4840 [=====================>........] - ETA: 0s - loss: 10.4442 - mean\_absolute\_error: 2.45373768/4840 [======================>.......] - ETA: 0s - loss: 10.4396 - mean\_absolute\_error: 2.45283825/4840 [======================>.......] - ETA: 0s - loss: 10.4394 - mean\_absolute\_error: 2.45283883/4840 [=======================>......] - ETA: 0s - loss: 10.4424 - mean\_absolute\_error: 2.45303942/4840 [=======================>......] - ETA: 0s - loss: 10.4540 - mean\_absolute\_error: 2.45444001/4840 [=======================>......] - ETA: 0s - loss: 10.4631 - mean\_absolute\_error: 2.45544060/4840 [========================>.....] - ETA: 0s - loss: 10.4675 - mean\_absolute\_error: 2.45584115/4840 [========================>.....] - ETA: 0s - loss: 10.4660 - mean\_absolute\_error: 2.45554174/4840 [========================>.....] - ETA: 0s - loss: 10.4648 - mean\_absolute\_error: 2.45554228/4840 [=========================>....] - ETA: 0s - loss: 10.4689 - mean\_absolute\_error: 2.45574286/4840 [=========================>....] - ETA: 0s - loss: 10.4697 - mean\_absolute\_error: 2.45594344/4840 [=========================>....] - ETA: 0s - loss: 10.4750 - mean\_absolute\_error: 2.45684399/4840 [==========================>...] - ETA: 0s - loss: 10.4855 - mean\_absolute\_error: 2.45814457/4840 [==========================>...] - ETA: 0s - loss: 10.4962 - mean\_absolute\_error: 2.45944516/4840 [==========================>...] - ETA: 0s - loss: 10.4931 - mean\_absolute\_error: 2.45934576/4840 [===========================>..] - ETA: 0s - loss: 10.4980 - mean\_absolute\_error: 2.46004636/4840 [===========================>..] - ETA: 0s - loss: 10.4973 - mean\_absolute\_error: 2.45974696/4840 [============================>.] - ETA: 0s - loss: 10.5067 - mean\_absolute\_error: 2.46134754/4840 [============================>.] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46064814/4840 [============================>.] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46154840/4840 [==============================] - 4s 923us/step - loss: 10.5033 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4939 - val\_mean\_absolute\_error: 2.5800  
Epoch 93/100  
 1/4840 [..............................] - ETA: 4s - loss: 9.6346 - mean\_absolute\_error: 2.3552 59/4840 [..............................] - ETA: 4s - loss: 10.2413 - mean\_absolute\_error: 2.4212 118/4840 [..............................] - ETA: 4s - loss: 10.2089 - mean\_absolute\_error: 2.4105 178/4840 [>.............................] - ETA: 3s - loss: 10.2639 - mean\_absolute\_error: 2.4199 236/4840 [>.............................] - ETA: 3s - loss: 10.3837 - mean\_absolute\_error: 2.4410 293/4840 [>.............................] - ETA: 3s - loss: 10.4258 - mean\_absolute\_error: 2.4511 350/4840 [=>............................] - ETA: 3s - loss: 10.4825 - mean\_absolute\_error: 2.4592 409/4840 [=>............................] - ETA: 3s - loss: 10.5018 - mean\_absolute\_error: 2.4580 467/4840 [=>............................] - ETA: 3s - loss: 10.4377 - mean\_absolute\_error: 2.4507 526/4840 [==>...........................] - ETA: 3s - loss: 10.5121 - mean\_absolute\_error: 2.4596 586/4840 [==>...........................] - ETA: 3s - loss: 10.4734 - mean\_absolute\_error: 2.4576 645/4840 [==>...........................] - ETA: 3s - loss: 10.5032 - mean\_absolute\_error: 2.4593 705/4840 [===>..........................] - ETA: 3s - loss: 10.5202 - mean\_absolute\_error: 2.4619 765/4840 [===>..........................] - ETA: 3s - loss: 10.5029 - mean\_absolute\_error: 2.4618 824/4840 [====>.........................] - ETA: 3s - loss: 10.4884 - mean\_absolute\_error: 2.4589 883/4840 [====>.........................] - ETA: 3s - loss: 10.5185 - mean\_absolute\_error: 2.4631 941/4840 [====>.........................] - ETA: 3s - loss: 10.5537 - mean\_absolute\_error: 2.4671 999/4840 [=====>........................] - ETA: 3s - loss: 10.5446 - mean\_absolute\_error: 2.46621058/4840 [=====>........................] - ETA: 3s - loss: 10.5204 - mean\_absolute\_error: 2.46341118/4840 [=====>........................] - ETA: 3s - loss: 10.5313 - mean\_absolute\_error: 2.46381176/4840 [======>.......................] - ETA: 3s - loss: 10.5320 - mean\_absolute\_error: 2.46411234/4840 [======>.......................] - ETA: 3s - loss: 10.5312 - mean\_absolute\_error: 2.46431292/4840 [=======>......................] - ETA: 3s - loss: 10.5036 - mean\_absolute\_error: 2.46071348/4840 [=======>......................] - ETA: 3s - loss: 10.5066 - mean\_absolute\_error: 2.46091403/4840 [=======>......................] - ETA: 2s - loss: 10.4802 - mean\_absolute\_error: 2.45791460/4840 [========>.....................] - ETA: 2s - loss: 10.4726 - mean\_absolute\_error: 2.45651518/4840 [========>.....................] - ETA: 2s - loss: 10.4572 - mean\_absolute\_error: 2.45411578/4840 [========>.....................] - ETA: 2s - loss: 10.4451 - mean\_absolute\_error: 2.45291637/4840 [=========>....................] - ETA: 2s - loss: 10.4359 - mean\_absolute\_error: 2.45111697/4840 [=========>....................] - ETA: 2s - loss: 10.4490 - mean\_absolute\_error: 2.45341755/4840 [=========>....................] - ETA: 2s - loss: 10.4583 - mean\_absolute\_error: 2.45411814/4840 [==========>...................] - ETA: 2s - loss: 10.4338 - mean\_absolute\_error: 2.45081872/4840 [==========>...................] - ETA: 2s - loss: 10.4131 - mean\_absolute\_error: 2.44811933/4840 [==========>...................] - ETA: 2s - loss: 10.4051 - mean\_absolute\_error: 2.44791992/4840 [===========>..................] - ETA: 2s - loss: 10.4141 - mean\_absolute\_error: 2.44952050/4840 [===========>..................] - ETA: 2s - loss: 10.4164 - mean\_absolute\_error: 2.44982110/4840 [============>.................] - ETA: 2s - loss: 10.4107 - mean\_absolute\_error: 2.44922171/4840 [============>.................] - ETA: 2s - loss: 10.4070 - mean\_absolute\_error: 2.44912229/4840 [============>.................] - ETA: 2s - loss: 10.4258 - mean\_absolute\_error: 2.45202289/4840 [=============>................] - ETA: 2s - loss: 10.4287 - mean\_absolute\_error: 2.45172348/4840 [=============>................] - ETA: 2s - loss: 10.4352 - mean\_absolute\_error: 2.45262407/4840 [=============>................] - ETA: 2s - loss: 10.4293 - mean\_absolute\_error: 2.45232463/4840 [==============>...............] - ETA: 2s - loss: 10.4380 - mean\_absolute\_error: 2.45372521/4840 [==============>...............] - ETA: 1s - loss: 10.4308 - mean\_absolute\_error: 2.45282580/4840 [==============>...............] - ETA: 1s - loss: 10.4344 - mean\_absolute\_error: 2.45332637/4840 [===============>..............] - ETA: 1s - loss: 10.4234 - mean\_absolute\_error: 2.45162694/4840 [===============>..............] - ETA: 1s - loss: 10.4294 - mean\_absolute\_error: 2.45232753/4840 [================>.............] - ETA: 1s - loss: 10.4410 - mean\_absolute\_error: 2.45352812/4840 [================>.............] - ETA: 1s - loss: 10.4520 - mean\_absolute\_error: 2.45472872/4840 [================>.............] - ETA: 1s - loss: 10.4552 - mean\_absolute\_error: 2.45532931/4840 [=================>............] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45492991/4840 [=================>............] - ETA: 1s - loss: 10.4628 - mean\_absolute\_error: 2.45563051/4840 [=================>............] - ETA: 1s - loss: 10.4528 - mean\_absolute\_error: 2.45423110/4840 [==================>...........] - ETA: 1s - loss: 10.4501 - mean\_absolute\_error: 2.45433169/4840 [==================>...........] - ETA: 1s - loss: 10.4496 - mean\_absolute\_error: 2.45393227/4840 [===================>..........] - ETA: 1s - loss: 10.4468 - mean\_absolute\_error: 2.45323287/4840 [===================>..........] - ETA: 1s - loss: 10.4400 - mean\_absolute\_error: 2.45213348/4840 [===================>..........] - ETA: 1s - loss: 10.4372 - mean\_absolute\_error: 2.45143407/4840 [====================>.........] - ETA: 1s - loss: 10.4566 - mean\_absolute\_error: 2.45403468/4840 [====================>.........] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45423525/4840 [====================>.........] - ETA: 1s - loss: 10.4487 - mean\_absolute\_error: 2.45293584/4840 [=====================>........] - ETA: 1s - loss: 10.4563 - mean\_absolute\_error: 2.45413643/4840 [=====================>........] - ETA: 1s - loss: 10.4621 - mean\_absolute\_error: 2.45523701/4840 [=====================>........] - ETA: 0s - loss: 10.4553 - mean\_absolute\_error: 2.45403760/4840 [======================>.......] - ETA: 0s - loss: 10.4550 - mean\_absolute\_error: 2.45423814/4840 [======================>.......] - ETA: 0s - loss: 10.4533 - mean\_absolute\_error: 2.45383867/4840 [======================>.......] - ETA: 0s - loss: 10.4620 - mean\_absolute\_error: 2.45513925/4840 [=======================>......] - ETA: 0s - loss: 10.4584 - mean\_absolute\_error: 2.45453984/4840 [=======================>......] - ETA: 0s - loss: 10.4574 - mean\_absolute\_error: 2.45424044/4840 [========================>.....] - ETA: 0s - loss: 10.4624 - mean\_absolute\_error: 2.45504104/4840 [========================>.....] - ETA: 0s - loss: 10.4714 - mean\_absolute\_error: 2.45644162/4840 [========================>.....] - ETA: 0s - loss: 10.4671 - mean\_absolute\_error: 2.45584221/4840 [=========================>....] - ETA: 0s - loss: 10.4726 - mean\_absolute\_error: 2.45654280/4840 [=========================>....] - ETA: 0s - loss: 10.4769 - mean\_absolute\_error: 2.45714336/4840 [=========================>....] - ETA: 0s - loss: 10.4853 - mean\_absolute\_error: 2.45774392/4840 [==========================>...] - ETA: 0s - loss: 10.4910 - mean\_absolute\_error: 2.45814449/4840 [==========================>...] - ETA: 0s - loss: 10.4908 - mean\_absolute\_error: 2.45824501/4840 [==========================>...] - ETA: 0s - loss: 10.4926 - mean\_absolute\_error: 2.45864548/4840 [===========================>..] - ETA: 0s - loss: 10.4924 - mean\_absolute\_error: 2.45904604/4840 [===========================>..] - ETA: 0s - loss: 10.4930 - mean\_absolute\_error: 2.45924661/4840 [===========================>..] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.45974720/4840 [============================>.] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.45974780/4840 [============================>.] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.45974839/4840 [============================>.] - ETA: 0s - loss: 10.5040 - mean\_absolute\_error: 2.46054840/4840 [==============================] - 4s 909us/step - loss: 10.5033 - mean\_absolute\_error: 2.4604 - val\_loss: 11.4980 - val\_mean\_absolute\_error: 2.5807  
Epoch 94/100  
 1/4840 [..............................] - ETA: 9s - loss: 17.5419 - mean\_absolute\_error: 3.4223 61/4840 [..............................] - ETA: 4s - loss: 10.5908 - mean\_absolute\_error: 2.4615 120/4840 [..............................] - ETA: 4s - loss: 10.5772 - mean\_absolute\_error: 2.4648 179/4840 [>.............................] - ETA: 3s - loss: 10.6798 - mean\_absolute\_error: 2.4789 239/4840 [>.............................] - ETA: 3s - loss: 10.4931 - mean\_absolute\_error: 2.4560 298/4840 [>.............................] - ETA: 3s - loss: 10.4700 - mean\_absolute\_error: 2.4557 357/4840 [=>............................] - ETA: 3s - loss: 10.4308 - mean\_absolute\_error: 2.4475 417/4840 [=>............................] - ETA: 3s - loss: 10.3813 - mean\_absolute\_error: 2.4444 477/4840 [=>............................] - ETA: 3s - loss: 10.4705 - mean\_absolute\_error: 2.4550 534/4840 [==>...........................] - ETA: 3s - loss: 10.4669 - mean\_absolute\_error: 2.4530 594/4840 [==>...........................] - ETA: 3s - loss: 10.4988 - mean\_absolute\_error: 2.4573 650/4840 [===>..........................] - ETA: 3s - loss: 10.4766 - mean\_absolute\_error: 2.4556 709/4840 [===>..........................] - ETA: 3s - loss: 10.4461 - mean\_absolute\_error: 2.4510 768/4840 [===>..........................] - ETA: 3s - loss: 10.4214 - mean\_absolute\_error: 2.4495 825/4840 [====>.........................] - ETA: 3s - loss: 10.3912 - mean\_absolute\_error: 2.4469 883/4840 [====>.........................] - ETA: 3s - loss: 10.3475 - mean\_absolute\_error: 2.4429 943/4840 [====>.........................] - ETA: 3s - loss: 10.3611 - mean\_absolute\_error: 2.44501002/4840 [=====>........................] - ETA: 3s - loss: 10.4187 - mean\_absolute\_error: 2.45271059/4840 [=====>........................] - ETA: 3s - loss: 10.4101 - mean\_absolute\_error: 2.45061115/4840 [=====>........................] - ETA: 3s - loss: 10.3990 - mean\_absolute\_error: 2.45011175/4840 [======>.......................] - ETA: 3s - loss: 10.3985 - mean\_absolute\_error: 2.44991234/4840 [======>.......................] - ETA: 3s - loss: 10.3741 - mean\_absolute\_error: 2.44671294/4840 [=======>......................] - ETA: 3s - loss: 10.3619 - mean\_absolute\_error: 2.44591354/4840 [=======>......................] - ETA: 2s - loss: 10.3507 - mean\_absolute\_error: 2.44441414/4840 [=======>......................] - ETA: 2s - loss: 10.3573 - mean\_absolute\_error: 2.44451474/4840 [========>.....................] - ETA: 2s - loss: 10.3654 - mean\_absolute\_error: 2.44431534/4840 [========>.....................] - ETA: 2s - loss: 10.3565 - mean\_absolute\_error: 2.44331594/4840 [========>.....................] - ETA: 2s - loss: 10.3494 - mean\_absolute\_error: 2.44141654/4840 [=========>....................] - ETA: 2s - loss: 10.3639 - mean\_absolute\_error: 2.44371713/4840 [=========>....................] - ETA: 2s - loss: 10.3603 - mean\_absolute\_error: 2.44411772/4840 [=========>....................] - ETA: 2s - loss: 10.3516 - mean\_absolute\_error: 2.44381832/4840 [==========>...................] - ETA: 2s - loss: 10.3615 - mean\_absolute\_error: 2.44451891/4840 [==========>...................] - ETA: 2s - loss: 10.3559 - mean\_absolute\_error: 2.44431950/4840 [===========>..................] - ETA: 2s - loss: 10.3565 - mean\_absolute\_error: 2.44392007/4840 [===========>..................] - ETA: 2s - loss: 10.3622 - mean\_absolute\_error: 2.44472067/4840 [===========>..................] - ETA: 2s - loss: 10.3629 - mean\_absolute\_error: 2.44472127/4840 [============>.................] - ETA: 2s - loss: 10.3651 - mean\_absolute\_error: 2.44552187/4840 [============>.................] - ETA: 2s - loss: 10.3681 - mean\_absolute\_error: 2.44562244/4840 [============>.................] - ETA: 2s - loss: 10.3759 - mean\_absolute\_error: 2.44632303/4840 [=============>................] - ETA: 2s - loss: 10.3753 - mean\_absolute\_error: 2.44572362/4840 [=============>................] - ETA: 2s - loss: 10.3809 - mean\_absolute\_error: 2.44612423/4840 [==============>...............] - ETA: 2s - loss: 10.3882 - mean\_absolute\_error: 2.44762482/4840 [==============>...............] - ETA: 2s - loss: 10.3712 - mean\_absolute\_error: 2.44532543/4840 [==============>...............] - ETA: 1s - loss: 10.3797 - mean\_absolute\_error: 2.44632603/4840 [===============>..............] - ETA: 1s - loss: 10.3744 - mean\_absolute\_error: 2.44542663/4840 [===============>..............] - ETA: 1s - loss: 10.3829 - mean\_absolute\_error: 2.44642723/4840 [===============>..............] - ETA: 1s - loss: 10.3686 - mean\_absolute\_error: 2.44432783/4840 [================>.............] - ETA: 1s - loss: 10.3635 - mean\_absolute\_error: 2.44322843/4840 [================>.............] - ETA: 1s - loss: 10.3750 - mean\_absolute\_error: 2.44512901/4840 [================>.............] - ETA: 1s - loss: 10.3754 - mean\_absolute\_error: 2.44512959/4840 [=================>............] - ETA: 1s - loss: 10.3717 - mean\_absolute\_error: 2.44503018/4840 [=================>............] - ETA: 1s - loss: 10.3805 - mean\_absolute\_error: 2.44623077/4840 [==================>...........] - ETA: 1s - loss: 10.3920 - mean\_absolute\_error: 2.44773137/4840 [==================>...........] - ETA: 1s - loss: 10.3919 - mean\_absolute\_error: 2.44693194/4840 [==================>...........] - ETA: 1s - loss: 10.3921 - mean\_absolute\_error: 2.44723254/4840 [===================>..........] - ETA: 1s - loss: 10.3897 - mean\_absolute\_error: 2.44693313/4840 [===================>..........] - ETA: 1s - loss: 10.3962 - mean\_absolute\_error: 2.44753373/4840 [===================>..........] - ETA: 1s - loss: 10.3939 - mean\_absolute\_error: 2.44713433/4840 [====================>.........] - ETA: 1s - loss: 10.3926 - mean\_absolute\_error: 2.44673492/4840 [====================>.........] - ETA: 1s - loss: 10.4037 - mean\_absolute\_error: 2.44813551/4840 [=====================>........] - ETA: 1s - loss: 10.4087 - mean\_absolute\_error: 2.44853611/4840 [=====================>........] - ETA: 1s - loss: 10.4247 - mean\_absolute\_error: 2.45043672/4840 [=====================>........] - ETA: 0s - loss: 10.4449 - mean\_absolute\_error: 2.45333715/4840 [======================>.......] - ETA: 0s - loss: 10.4430 - mean\_absolute\_error: 2.45273752/4840 [======================>.......] - ETA: 0s - loss: 10.4425 - mean\_absolute\_error: 2.45293808/4840 [======================>.......] - ETA: 0s - loss: 10.4458 - mean\_absolute\_error: 2.45313868/4840 [======================>.......] - ETA: 0s - loss: 10.4531 - mean\_absolute\_error: 2.45403927/4840 [=======================>......] - ETA: 0s - loss: 10.4634 - mean\_absolute\_error: 2.45543987/4840 [=======================>......] - ETA: 0s - loss: 10.4654 - mean\_absolute\_error: 2.45564045/4840 [========================>.....] - ETA: 0s - loss: 10.4715 - mean\_absolute\_error: 2.45664104/4840 [========================>.....] - ETA: 0s - loss: 10.4722 - mean\_absolute\_error: 2.45684162/4840 [========================>.....] - ETA: 0s - loss: 10.4780 - mean\_absolute\_error: 2.45754214/4840 [=========================>....] - ETA: 0s - loss: 10.4721 - mean\_absolute\_error: 2.45674273/4840 [=========================>....] - ETA: 0s - loss: 10.4709 - mean\_absolute\_error: 2.45654333/4840 [=========================>....] - ETA: 0s - loss: 10.4720 - mean\_absolute\_error: 2.45674390/4840 [==========================>...] - ETA: 0s - loss: 10.4786 - mean\_absolute\_error: 2.45774450/4840 [==========================>...] - ETA: 0s - loss: 10.4938 - mean\_absolute\_error: 2.45954509/4840 [==========================>...] - ETA: 0s - loss: 10.4997 - mean\_absolute\_error: 2.46044567/4840 [===========================>..] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46024617/4840 [===========================>..] - ETA: 0s - loss: 10.5015 - mean\_absolute\_error: 2.46024666/4840 [===========================>..] - ETA: 0s - loss: 10.4998 - mean\_absolute\_error: 2.46024719/4840 [============================>.] - ETA: 0s - loss: 10.4976 - mean\_absolute\_error: 2.46044773/4840 [============================>.] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46084826/4840 [============================>.] - ETA: 0s - loss: 10.5013 - mean\_absolute\_error: 2.46074840/4840 [==============================] - 4s 915us/step - loss: 10.5038 - mean\_absolute\_error: 2.4609 - val\_loss: 11.4986 - val\_mean\_absolute\_error: 2.5801  
Epoch 95/100  
 1/4840 [..............................] - ETA: 4s - loss: 4.4023 - mean\_absolute\_error: 1.4341 60/4840 [..............................] - ETA: 4s - loss: 9.9907 - mean\_absolute\_error: 2.4165 118/4840 [..............................] - ETA: 4s - loss: 10.5300 - mean\_absolute\_error: 2.4760 177/4840 [>.............................] - ETA: 3s - loss: 10.5107 - mean\_absolute\_error: 2.4721 236/4840 [>.............................] - ETA: 3s - loss: 10.5175 - mean\_absolute\_error: 2.4757 294/4840 [>.............................] - ETA: 3s - loss: 10.4785 - mean\_absolute\_error: 2.4658 352/4840 [=>............................] - ETA: 3s - loss: 10.4927 - mean\_absolute\_error: 2.4676 410/4840 [=>............................] - ETA: 3s - loss: 10.5044 - mean\_absolute\_error: 2.4695 468/4840 [=>............................] - ETA: 3s - loss: 10.5305 - mean\_absolute\_error: 2.4701 526/4840 [==>...........................] - ETA: 3s - loss: 10.5141 - mean\_absolute\_error: 2.4699 585/4840 [==>...........................] - ETA: 3s - loss: 10.4406 - mean\_absolute\_error: 2.4624 644/4840 [==>...........................] - ETA: 3s - loss: 10.4945 - mean\_absolute\_error: 2.4674 703/4840 [===>..........................] - ETA: 3s - loss: 10.4487 - mean\_absolute\_error: 2.4624 762/4840 [===>..........................] - ETA: 3s - loss: 10.5061 - mean\_absolute\_error: 2.4692 822/4840 [====>.........................] - ETA: 3s - loss: 10.5432 - mean\_absolute\_error: 2.4737 881/4840 [====>.........................] - ETA: 3s - loss: 10.5383 - mean\_absolute\_error: 2.4739 941/4840 [====>.........................] - ETA: 3s - loss: 10.5337 - mean\_absolute\_error: 2.47361000/4840 [=====>........................] - ETA: 3s - loss: 10.5236 - mean\_absolute\_error: 2.47291059/4840 [=====>........................] - ETA: 3s - loss: 10.5384 - mean\_absolute\_error: 2.47461118/4840 [=====>........................] - ETA: 3s - loss: 10.5274 - mean\_absolute\_error: 2.47351177/4840 [======>.......................] - ETA: 3s - loss: 10.5146 - mean\_absolute\_error: 2.47201236/4840 [======>.......................] - ETA: 3s - loss: 10.5040 - mean\_absolute\_error: 2.46961295/4840 [=======>......................] - ETA: 3s - loss: 10.4682 - mean\_absolute\_error: 2.46401354/4840 [=======>......................] - ETA: 2s - loss: 10.4887 - mean\_absolute\_error: 2.46641413/4840 [=======>......................] - ETA: 2s - loss: 10.4971 - mean\_absolute\_error: 2.46801471/4840 [========>.....................] - ETA: 2s - loss: 10.5133 - mean\_absolute\_error: 2.46791530/4840 [========>.....................] - ETA: 2s - loss: 10.4885 - mean\_absolute\_error: 2.46331590/4840 [========>.....................] - ETA: 2s - loss: 10.4868 - mean\_absolute\_error: 2.46251649/4840 [=========>....................] - ETA: 2s - loss: 10.4952 - mean\_absolute\_error: 2.46221708/4840 [=========>....................] - ETA: 2s - loss: 10.4805 - mean\_absolute\_error: 2.45981767/4840 [=========>....................] - ETA: 2s - loss: 10.4943 - mean\_absolute\_error: 2.46111826/4840 [==========>...................] - ETA: 2s - loss: 10.4887 - mean\_absolute\_error: 2.46051885/4840 [==========>...................] - ETA: 2s - loss: 10.4836 - mean\_absolute\_error: 2.46041944/4840 [===========>..................] - ETA: 2s - loss: 10.4701 - mean\_absolute\_error: 2.45862005/4840 [===========>..................] - ETA: 2s - loss: 10.4838 - mean\_absolute\_error: 2.46002064/4840 [===========>..................] - ETA: 2s - loss: 10.4801 - mean\_absolute\_error: 2.45912124/4840 [============>.................] - ETA: 2s - loss: 10.4756 - mean\_absolute\_error: 2.45882183/4840 [============>.................] - ETA: 2s - loss: 10.4624 - mean\_absolute\_error: 2.45632243/4840 [============>.................] - ETA: 2s - loss: 10.4707 - mean\_absolute\_error: 2.45762300/4840 [=============>................] - ETA: 2s - loss: 10.4673 - mean\_absolute\_error: 2.45662359/4840 [=============>................] - ETA: 2s - loss: 10.4610 - mean\_absolute\_error: 2.45572419/4840 [=============>................] - ETA: 2s - loss: 10.4602 - mean\_absolute\_error: 2.45602478/4840 [==============>...............] - ETA: 2s - loss: 10.4727 - mean\_absolute\_error: 2.45782537/4840 [==============>...............] - ETA: 1s - loss: 10.4592 - mean\_absolute\_error: 2.45602596/4840 [===============>..............] - ETA: 1s - loss: 10.4563 - mean\_absolute\_error: 2.45562655/4840 [===============>..............] - ETA: 1s - loss: 10.4464 - mean\_absolute\_error: 2.45432713/4840 [===============>..............] - ETA: 1s - loss: 10.4512 - mean\_absolute\_error: 2.45452772/4840 [================>.............] - ETA: 1s - loss: 10.4609 - mean\_absolute\_error: 2.45622832/4840 [================>.............] - ETA: 1s - loss: 10.4581 - mean\_absolute\_error: 2.45562891/4840 [================>.............] - ETA: 1s - loss: 10.4680 - mean\_absolute\_error: 2.45672951/4840 [=================>............] - ETA: 1s - loss: 10.4806 - mean\_absolute\_error: 2.45893009/4840 [=================>............] - ETA: 1s - loss: 10.4788 - mean\_absolute\_error: 2.45833067/4840 [==================>...........] - ETA: 1s - loss: 10.4790 - mean\_absolute\_error: 2.45903127/4840 [==================>...........] - ETA: 1s - loss: 10.4794 - mean\_absolute\_error: 2.45873186/4840 [==================>...........] - ETA: 1s - loss: 10.4666 - mean\_absolute\_error: 2.45673246/4840 [===================>..........] - ETA: 1s - loss: 10.4626 - mean\_absolute\_error: 2.45583304/4840 [===================>..........] - ETA: 1s - loss: 10.4542 - mean\_absolute\_error: 2.45483363/4840 [===================>..........] - ETA: 1s - loss: 10.4614 - mean\_absolute\_error: 2.45593423/4840 [====================>.........] - ETA: 1s - loss: 10.4721 - mean\_absolute\_error: 2.45733483/4840 [====================>.........] - ETA: 1s - loss: 10.4780 - mean\_absolute\_error: 2.45813540/4840 [====================>.........] - ETA: 1s - loss: 10.4851 - mean\_absolute\_error: 2.45933599/4840 [=====================>........] - ETA: 1s - loss: 10.4841 - mean\_absolute\_error: 2.45913658/4840 [=====================>........] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46233717/4840 [======================>.......] - ETA: 0s - loss: 10.5092 - mean\_absolute\_error: 2.46243776/4840 [======================>.......] - ETA: 0s - loss: 10.5067 - mean\_absolute\_error: 2.46213835/4840 [======================>.......] - ETA: 0s - loss: 10.5005 - mean\_absolute\_error: 2.46163896/4840 [=======================>......] - ETA: 0s - loss: 10.5020 - mean\_absolute\_error: 2.46123956/4840 [=======================>......] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46104014/4840 [=======================>......] - ETA: 0s - loss: 10.5076 - mean\_absolute\_error: 2.46164074/4840 [========================>.....] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46174134/4840 [========================>.....] - ETA: 0s - loss: 10.5108 - mean\_absolute\_error: 2.46184194/4840 [========================>.....] - ETA: 0s - loss: 10.5127 - mean\_absolute\_error: 2.46194253/4840 [=========================>....] - ETA: 0s - loss: 10.5099 - mean\_absolute\_error: 2.46194313/4840 [=========================>....] - ETA: 0s - loss: 10.5158 - mean\_absolute\_error: 2.46284372/4840 [==========================>...] - ETA: 0s - loss: 10.5180 - mean\_absolute\_error: 2.46294432/4840 [==========================>...] - ETA: 0s - loss: 10.5196 - mean\_absolute\_error: 2.46324492/4840 [==========================>...] - ETA: 0s - loss: 10.5057 - mean\_absolute\_error: 2.46154552/4840 [===========================>..] - ETA: 0s - loss: 10.5002 - mean\_absolute\_error: 2.46084613/4840 [===========================>..] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46134673/4840 [===========================>..] - ETA: 0s - loss: 10.5012 - mean\_absolute\_error: 2.46114731/4840 [============================>.] - ETA: 0s - loss: 10.5037 - mean\_absolute\_error: 2.46114789/4840 [============================>.] - ETA: 0s - loss: 10.5031 - mean\_absolute\_error: 2.46134840/4840 [==============================] - 4s 894us/step - loss: 10.5031 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4974 - val\_mean\_absolute\_error: 2.5801  
Epoch 96/100  
 1/4840 [..............................] - ETA: 9s - loss: 4.0102 - mean\_absolute\_error: 1.4504 61/4840 [..............................] - ETA: 4s - loss: 10.1181 - mean\_absolute\_error: 2.4078 120/4840 [..............................] - ETA: 4s - loss: 10.1930 - mean\_absolute\_error: 2.4356 180/4840 [>.............................] - ETA: 3s - loss: 10.2550 - mean\_absolute\_error: 2.4363 240/4840 [>.............................] - ETA: 3s - loss: 10.4237 - mean\_absolute\_error: 2.4547 300/4840 [>.............................] - ETA: 3s - loss: 10.3566 - mean\_absolute\_error: 2.4511 361/4840 [=>............................] - ETA: 3s - loss: 10.3157 - mean\_absolute\_error: 2.4436 419/4840 [=>............................] - ETA: 3s - loss: 10.4004 - mean\_absolute\_error: 2.4510 480/4840 [=>............................] - ETA: 3s - loss: 10.3783 - mean\_absolute\_error: 2.4492 541/4840 [==>...........................] - ETA: 3s - loss: 10.3870 - mean\_absolute\_error: 2.4484 601/4840 [==>...........................] - ETA: 3s - loss: 10.3283 - mean\_absolute\_error: 2.4400 659/4840 [===>..........................] - ETA: 3s - loss: 10.3447 - mean\_absolute\_error: 2.4412 720/4840 [===>..........................] - ETA: 3s - loss: 10.3600 - mean\_absolute\_error: 2.4435 780/4840 [===>..........................] - ETA: 3s - loss: 10.3397 - mean\_absolute\_error: 2.4425 836/4840 [====>.........................] - ETA: 3s - loss: 10.3419 - mean\_absolute\_error: 2.4436 895/4840 [====>.........................] - ETA: 3s - loss: 10.3332 - mean\_absolute\_error: 2.4421 955/4840 [====>.........................] - ETA: 3s - loss: 10.3417 - mean\_absolute\_error: 2.44291014/4840 [=====>........................] - ETA: 3s - loss: 10.3401 - mean\_absolute\_error: 2.44131074/4840 [=====>........................] - ETA: 3s - loss: 10.3084 - mean\_absolute\_error: 2.43721134/4840 [======>.......................] - ETA: 3s - loss: 10.3365 - mean\_absolute\_error: 2.44151194/4840 [======>.......................] - ETA: 3s - loss: 10.3180 - mean\_absolute\_error: 2.43861255/4840 [======>.......................] - ETA: 3s - loss: 10.3170 - mean\_absolute\_error: 2.43851314/4840 [=======>......................] - ETA: 2s - loss: 10.3276 - mean\_absolute\_error: 2.43931374/4840 [=======>......................] - ETA: 2s - loss: 10.3308 - mean\_absolute\_error: 2.43961434/4840 [=======>......................] - ETA: 2s - loss: 10.3254 - mean\_absolute\_error: 2.43781494/4840 [========>.....................] - ETA: 2s - loss: 10.3409 - mean\_absolute\_error: 2.43911554/4840 [========>.....................] - ETA: 2s - loss: 10.3482 - mean\_absolute\_error: 2.44001613/4840 [========>.....................] - ETA: 2s - loss: 10.3323 - mean\_absolute\_error: 2.43791665/4840 [=========>....................] - ETA: 2s - loss: 10.3715 - mean\_absolute\_error: 2.44321723/4840 [=========>....................] - ETA: 2s - loss: 10.3789 - mean\_absolute\_error: 2.44331783/4840 [==========>...................] - ETA: 2s - loss: 10.3895 - mean\_absolute\_error: 2.44441843/4840 [==========>...................] - ETA: 2s - loss: 10.3962 - mean\_absolute\_error: 2.44551904/4840 [==========>...................] - ETA: 2s - loss: 10.4123 - mean\_absolute\_error: 2.44761965/4840 [===========>..................] - ETA: 2s - loss: 10.4065 - mean\_absolute\_error: 2.44712024/4840 [===========>..................] - ETA: 2s - loss: 10.4061 - mean\_absolute\_error: 2.44742084/4840 [===========>..................] - ETA: 2s - loss: 10.4087 - mean\_absolute\_error: 2.44712145/4840 [============>.................] - ETA: 2s - loss: 10.4236 - mean\_absolute\_error: 2.44932204/4840 [============>.................] - ETA: 2s - loss: 10.4358 - mean\_absolute\_error: 2.45092263/4840 [=============>................] - ETA: 2s - loss: 10.4437 - mean\_absolute\_error: 2.45242321/4840 [=============>................] - ETA: 2s - loss: 10.4588 - mean\_absolute\_error: 2.45442381/4840 [=============>................] - ETA: 2s - loss: 10.4650 - mean\_absolute\_error: 2.45492441/4840 [==============>...............] - ETA: 2s - loss: 10.4684 - mean\_absolute\_error: 2.45522499/4840 [==============>...............] - ETA: 1s - loss: 10.4783 - mean\_absolute\_error: 2.45622560/4840 [==============>...............] - ETA: 1s - loss: 10.4647 - mean\_absolute\_error: 2.45502614/4840 [===============>..............] - ETA: 1s - loss: 10.4720 - mean\_absolute\_error: 2.45592664/4840 [===============>..............] - ETA: 1s - loss: 10.4637 - mean\_absolute\_error: 2.45482721/4840 [===============>..............] - ETA: 1s - loss: 10.4681 - mean\_absolute\_error: 2.45582780/4840 [================>.............] - ETA: 1s - loss: 10.4653 - mean\_absolute\_error: 2.45472839/4840 [================>.............] - ETA: 1s - loss: 10.4723 - mean\_absolute\_error: 2.45592900/4840 [================>.............] - ETA: 1s - loss: 10.4778 - mean\_absolute\_error: 2.45692960/4840 [=================>............] - ETA: 1s - loss: 10.4756 - mean\_absolute\_error: 2.45653021/4840 [=================>............] - ETA: 1s - loss: 10.4650 - mean\_absolute\_error: 2.45533081/4840 [==================>...........] - ETA: 1s - loss: 10.4537 - mean\_absolute\_error: 2.45373142/4840 [==================>...........] - ETA: 1s - loss: 10.4518 - mean\_absolute\_error: 2.45363201/4840 [==================>...........] - ETA: 1s - loss: 10.4484 - mean\_absolute\_error: 2.45313259/4840 [===================>..........] - ETA: 1s - loss: 10.4396 - mean\_absolute\_error: 2.45223316/4840 [===================>..........] - ETA: 1s - loss: 10.4434 - mean\_absolute\_error: 2.45333375/4840 [===================>..........] - ETA: 1s - loss: 10.4420 - mean\_absolute\_error: 2.45313434/4840 [====================>.........] - ETA: 1s - loss: 10.4559 - mean\_absolute\_error: 2.45423493/4840 [====================>.........] - ETA: 1s - loss: 10.4631 - mean\_absolute\_error: 2.45513553/4840 [=====================>........] - ETA: 1s - loss: 10.4660 - mean\_absolute\_error: 2.45563613/4840 [=====================>........] - ETA: 1s - loss: 10.4769 - mean\_absolute\_error: 2.45683671/4840 [=====================>........] - ETA: 0s - loss: 10.4751 - mean\_absolute\_error: 2.45673725/4840 [======================>.......] - ETA: 0s - loss: 10.4688 - mean\_absolute\_error: 2.45583775/4840 [======================>.......] - ETA: 0s - loss: 10.4692 - mean\_absolute\_error: 2.45623828/4840 [======================>.......] - ETA: 0s - loss: 10.4742 - mean\_absolute\_error: 2.45713878/4840 [=======================>......] - ETA: 0s - loss: 10.4784 - mean\_absolute\_error: 2.45773926/4840 [=======================>......] - ETA: 0s - loss: 10.4866 - mean\_absolute\_error: 2.45873967/4840 [=======================>......] - ETA: 0s - loss: 10.4834 - mean\_absolute\_error: 2.45854022/4840 [=======================>......] - ETA: 0s - loss: 10.4806 - mean\_absolute\_error: 2.45814081/4840 [========================>.....] - ETA: 0s - loss: 10.4847 - mean\_absolute\_error: 2.45864141/4840 [========================>.....] - ETA: 0s - loss: 10.4787 - mean\_absolute\_error: 2.45804198/4840 [=========================>....] - ETA: 0s - loss: 10.4762 - mean\_absolute\_error: 2.45744256/4840 [=========================>....] - ETA: 0s - loss: 10.4748 - mean\_absolute\_error: 2.45714314/4840 [=========================>....] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45814373/4840 [==========================>...] - ETA: 0s - loss: 10.4869 - mean\_absolute\_error: 2.45854430/4840 [==========================>...] - ETA: 0s - loss: 10.4865 - mean\_absolute\_error: 2.45834490/4840 [==========================>...] - ETA: 0s - loss: 10.4930 - mean\_absolute\_error: 2.45894537/4840 [===========================>..] - ETA: 0s - loss: 10.4912 - mean\_absolute\_error: 2.45854591/4840 [===========================>..] - ETA: 0s - loss: 10.4904 - mean\_absolute\_error: 2.45844642/4840 [===========================>..] - ETA: 0s - loss: 10.4920 - mean\_absolute\_error: 2.45864698/4840 [============================>.] - ETA: 0s - loss: 10.4861 - mean\_absolute\_error: 2.45774756/4840 [============================>.] - ETA: 0s - loss: 10.4973 - mean\_absolute\_error: 2.45944813/4840 [============================>.] - ETA: 0s - loss: 10.5033 - mean\_absolute\_error: 2.46014840/4840 [==============================] - 4s 912us/step - loss: 10.5037 - mean\_absolute\_error: 2.4604 - val\_loss: 11.4982 - val\_mean\_absolute\_error: 2.5808  
Epoch 97/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.5552 - mean\_absolute\_error: 2.2752 60/4840 [..............................] - ETA: 4s - loss: 10.4941 - mean\_absolute\_error: 2.4534 120/4840 [..............................] - ETA: 4s - loss: 10.3176 - mean\_absolute\_error: 2.4481 179/4840 [>.............................] - ETA: 3s - loss: 10.2959 - mean\_absolute\_error: 2.4289 238/4840 [>.............................] - ETA: 3s - loss: 10.3870 - mean\_absolute\_error: 2.4397 298/4840 [>.............................] - ETA: 3s - loss: 10.3731 - mean\_absolute\_error: 2.4407 354/4840 [=>............................] - ETA: 3s - loss: 10.3841 - mean\_absolute\_error: 2.4464 411/4840 [=>............................] - ETA: 3s - loss: 10.3850 - mean\_absolute\_error: 2.4481 469/4840 [=>............................] - ETA: 3s - loss: 10.3673 - mean\_absolute\_error: 2.4468 528/4840 [==>...........................] - ETA: 3s - loss: 10.4197 - mean\_absolute\_error: 2.4547 585/4840 [==>...........................] - ETA: 3s - loss: 10.4582 - mean\_absolute\_error: 2.4612 643/4840 [==>...........................] - ETA: 3s - loss: 10.4201 - mean\_absolute\_error: 2.4547 703/4840 [===>..........................] - ETA: 3s - loss: 10.4121 - mean\_absolute\_error: 2.4551 763/4840 [===>..........................] - ETA: 3s - loss: 10.3918 - mean\_absolute\_error: 2.4511 822/4840 [====>.........................] - ETA: 3s - loss: 10.3891 - mean\_absolute\_error: 2.4508 882/4840 [====>.........................] - ETA: 3s - loss: 10.3853 - mean\_absolute\_error: 2.4489 941/4840 [====>.........................] - ETA: 3s - loss: 10.3684 - mean\_absolute\_error: 2.44581001/4840 [=====>........................] - ETA: 3s - loss: 10.3773 - mean\_absolute\_error: 2.44661060/4840 [=====>........................] - ETA: 3s - loss: 10.4042 - mean\_absolute\_error: 2.44911118/4840 [=====>........................] - ETA: 3s - loss: 10.4455 - mean\_absolute\_error: 2.45481177/4840 [======>.......................] - ETA: 3s - loss: 10.4258 - mean\_absolute\_error: 2.45121236/4840 [======>.......................] - ETA: 3s - loss: 10.4255 - mean\_absolute\_error: 2.45131296/4840 [=======>......................] - ETA: 3s - loss: 10.4273 - mean\_absolute\_error: 2.45201355/4840 [=======>......................] - ETA: 2s - loss: 10.3966 - mean\_absolute\_error: 2.44841415/4840 [=======>......................] - ETA: 2s - loss: 10.4007 - mean\_absolute\_error: 2.44971475/4840 [========>.....................] - ETA: 2s - loss: 10.3965 - mean\_absolute\_error: 2.44891534/4840 [========>.....................] - ETA: 2s - loss: 10.4044 - mean\_absolute\_error: 2.44991594/4840 [========>.....................] - ETA: 2s - loss: 10.4127 - mean\_absolute\_error: 2.45201653/4840 [=========>....................] - ETA: 2s - loss: 10.4022 - mean\_absolute\_error: 2.45101710/4840 [=========>....................] - ETA: 2s - loss: 10.3901 - mean\_absolute\_error: 2.44951769/4840 [=========>....................] - ETA: 2s - loss: 10.4080 - mean\_absolute\_error: 2.45151825/4840 [==========>...................] - ETA: 2s - loss: 10.3766 - mean\_absolute\_error: 2.44751884/4840 [==========>...................] - ETA: 2s - loss: 10.3640 - mean\_absolute\_error: 2.44571941/4840 [===========>..................] - ETA: 2s - loss: 10.3613 - mean\_absolute\_error: 2.44561996/4840 [===========>..................] - ETA: 2s - loss: 10.3669 - mean\_absolute\_error: 2.44682055/4840 [===========>..................] - ETA: 2s - loss: 10.3828 - mean\_absolute\_error: 2.44862114/4840 [============>.................] - ETA: 2s - loss: 10.4055 - mean\_absolute\_error: 2.45172173/4840 [============>.................] - ETA: 2s - loss: 10.4143 - mean\_absolute\_error: 2.45272232/4840 [============>.................] - ETA: 2s - loss: 10.4311 - mean\_absolute\_error: 2.45442291/4840 [=============>................] - ETA: 2s - loss: 10.4348 - mean\_absolute\_error: 2.45452350/4840 [=============>................] - ETA: 2s - loss: 10.4365 - mean\_absolute\_error: 2.45412408/4840 [=============>................] - ETA: 2s - loss: 10.4251 - mean\_absolute\_error: 2.45182467/4840 [==============>...............] - ETA: 2s - loss: 10.4346 - mean\_absolute\_error: 2.45312527/4840 [==============>...............] - ETA: 1s - loss: 10.4329 - mean\_absolute\_error: 2.45272586/4840 [===============>..............] - ETA: 1s - loss: 10.4534 - mean\_absolute\_error: 2.45482646/4840 [===============>..............] - ETA: 1s - loss: 10.4480 - mean\_absolute\_error: 2.45402704/4840 [===============>..............] - ETA: 1s - loss: 10.4508 - mean\_absolute\_error: 2.45452764/4840 [================>.............] - ETA: 1s - loss: 10.4614 - mean\_absolute\_error: 2.45582823/4840 [================>.............] - ETA: 1s - loss: 10.4509 - mean\_absolute\_error: 2.45492881/4840 [================>.............] - ETA: 1s - loss: 10.4444 - mean\_absolute\_error: 2.45432939/4840 [=================>............] - ETA: 1s - loss: 10.4562 - mean\_absolute\_error: 2.45572996/4840 [=================>............] - ETA: 1s - loss: 10.4483 - mean\_absolute\_error: 2.45493055/4840 [=================>............] - ETA: 1s - loss: 10.4560 - mean\_absolute\_error: 2.45603109/4840 [==================>...........] - ETA: 1s - loss: 10.4588 - mean\_absolute\_error: 2.45653168/4840 [==================>...........] - ETA: 1s - loss: 10.4674 - mean\_absolute\_error: 2.45753228/4840 [===================>..........] - ETA: 1s - loss: 10.4688 - mean\_absolute\_error: 2.45723288/4840 [===================>..........] - ETA: 1s - loss: 10.4703 - mean\_absolute\_error: 2.45683347/4840 [===================>..........] - ETA: 1s - loss: 10.4701 - mean\_absolute\_error: 2.45713405/4840 [====================>.........] - ETA: 1s - loss: 10.4720 - mean\_absolute\_error: 2.45703464/4840 [====================>.........] - ETA: 1s - loss: 10.4712 - mean\_absolute\_error: 2.45693521/4840 [====================>.........] - ETA: 1s - loss: 10.4718 - mean\_absolute\_error: 2.45703578/4840 [=====================>........] - ETA: 1s - loss: 10.4746 - mean\_absolute\_error: 2.45723636/4840 [=====================>........] - ETA: 1s - loss: 10.4748 - mean\_absolute\_error: 2.45753695/4840 [=====================>........] - ETA: 0s - loss: 10.4774 - mean\_absolute\_error: 2.45803753/4840 [======================>.......] - ETA: 0s - loss: 10.4733 - mean\_absolute\_error: 2.45753812/4840 [======================>.......] - ETA: 0s - loss: 10.4686 - mean\_absolute\_error: 2.45693871/4840 [======================>.......] - ETA: 0s - loss: 10.4584 - mean\_absolute\_error: 2.45583930/4840 [=======================>......] - ETA: 0s - loss: 10.4571 - mean\_absolute\_error: 2.45573989/4840 [=======================>......] - ETA: 0s - loss: 10.4623 - mean\_absolute\_error: 2.45634048/4840 [========================>.....] - ETA: 0s - loss: 10.4680 - mean\_absolute\_error: 2.45694105/4840 [========================>.....] - ETA: 0s - loss: 10.4686 - mean\_absolute\_error: 2.45724162/4840 [========================>.....] - ETA: 0s - loss: 10.4721 - mean\_absolute\_error: 2.45804220/4840 [=========================>....] - ETA: 0s - loss: 10.4735 - mean\_absolute\_error: 2.45824279/4840 [=========================>....] - ETA: 0s - loss: 10.4707 - mean\_absolute\_error: 2.45804337/4840 [=========================>....] - ETA: 0s - loss: 10.4717 - mean\_absolute\_error: 2.45804396/4840 [==========================>...] - ETA: 0s - loss: 10.4762 - mean\_absolute\_error: 2.45814454/4840 [==========================>...] - ETA: 0s - loss: 10.4821 - mean\_absolute\_error: 2.45924513/4840 [==========================>...] - ETA: 0s - loss: 10.4856 - mean\_absolute\_error: 2.45954569/4840 [===========================>..] - ETA: 0s - loss: 10.4925 - mean\_absolute\_error: 2.46084629/4840 [===========================>..] - ETA: 0s - loss: 10.4958 - mean\_absolute\_error: 2.46124688/4840 [============================>.] - ETA: 0s - loss: 10.4991 - mean\_absolute\_error: 2.46134746/4840 [============================>.] - ETA: 0s - loss: 10.5019 - mean\_absolute\_error: 2.46164806/4840 [============================>.] - ETA: 0s - loss: 10.4978 - mean\_absolute\_error: 2.46094840/4840 [==============================] - 4s 906us/step - loss: 10.5033 - mean\_absolute\_error: 2.4615 - val\_loss: 11.4947 - val\_mean\_absolute\_error: 2.5800  
Epoch 98/100  
 1/4840 [..............................] - ETA: 4s - loss: 15.7146 - mean\_absolute\_error: 3.1465 59/4840 [..............................] - ETA: 4s - loss: 10.5645 - mean\_absolute\_error: 2.4458 119/4840 [..............................] - ETA: 4s - loss: 10.4922 - mean\_absolute\_error: 2.4472 176/4840 [>.............................] - ETA: 4s - loss: 10.3825 - mean\_absolute\_error: 2.4304 234/4840 [>.............................] - ETA: 4s - loss: 10.3162 - mean\_absolute\_error: 2.4260 293/4840 [>.............................] - ETA: 3s - loss: 10.4462 - mean\_absolute\_error: 2.4453 346/4840 [=>............................] - ETA: 3s - loss: 10.4219 - mean\_absolute\_error: 2.4446 405/4840 [=>............................] - ETA: 3s - loss: 10.4684 - mean\_absolute\_error: 2.4512 465/4840 [=>............................] - ETA: 3s - loss: 10.3940 - mean\_absolute\_error: 2.4454 525/4840 [==>...........................] - ETA: 3s - loss: 10.4068 - mean\_absolute\_error: 2.4466 584/4840 [==>...........................] - ETA: 3s - loss: 10.4158 - mean\_absolute\_error: 2.4466 644/4840 [==>...........................] - ETA: 3s - loss: 10.4349 - mean\_absolute\_error: 2.4521 705/4840 [===>..........................] - ETA: 3s - loss: 10.4281 - mean\_absolute\_error: 2.4522 765/4840 [===>..........................] - ETA: 3s - loss: 10.5003 - mean\_absolute\_error: 2.4623 824/4840 [====>.........................] - ETA: 3s - loss: 10.5046 - mean\_absolute\_error: 2.4631 884/4840 [====>.........................] - ETA: 3s - loss: 10.5043 - mean\_absolute\_error: 2.4619 945/4840 [====>.........................] - ETA: 3s - loss: 10.4915 - mean\_absolute\_error: 2.46071005/4840 [=====>........................] - ETA: 3s - loss: 10.4671 - mean\_absolute\_error: 2.45591065/4840 [=====>........................] - ETA: 3s - loss: 10.4692 - mean\_absolute\_error: 2.45681125/4840 [=====>........................] - ETA: 3s - loss: 10.4482 - mean\_absolute\_error: 2.45291185/4840 [======>.......................] - ETA: 3s - loss: 10.4460 - mean\_absolute\_error: 2.45161245/4840 [======>.......................] - ETA: 3s - loss: 10.4231 - mean\_absolute\_error: 2.44891305/4840 [=======>......................] - ETA: 3s - loss: 10.4567 - mean\_absolute\_error: 2.45351363/4840 [=======>......................] - ETA: 2s - loss: 10.4624 - mean\_absolute\_error: 2.45441419/4840 [=======>......................] - ETA: 2s - loss: 10.4650 - mean\_absolute\_error: 2.45561480/4840 [========>.....................] - ETA: 2s - loss: 10.4732 - mean\_absolute\_error: 2.45631540/4840 [========>.....................] - ETA: 2s - loss: 10.4850 - mean\_absolute\_error: 2.45821600/4840 [========>.....................] - ETA: 2s - loss: 10.4986 - mean\_absolute\_error: 2.46001661/4840 [=========>....................] - ETA: 2s - loss: 10.4828 - mean\_absolute\_error: 2.45811721/4840 [=========>....................] - ETA: 2s - loss: 10.4920 - mean\_absolute\_error: 2.45961781/4840 [==========>...................] - ETA: 2s - loss: 10.4757 - mean\_absolute\_error: 2.45791839/4840 [==========>...................] - ETA: 2s - loss: 10.4748 - mean\_absolute\_error: 2.45851898/4840 [==========>...................] - ETA: 2s - loss: 10.4719 - mean\_absolute\_error: 2.45751958/4840 [===========>..................] - ETA: 2s - loss: 10.4642 - mean\_absolute\_error: 2.45642017/4840 [===========>..................] - ETA: 2s - loss: 10.4536 - mean\_absolute\_error: 2.45472077/4840 [===========>..................] - ETA: 2s - loss: 10.4490 - mean\_absolute\_error: 2.45392137/4840 [============>.................] - ETA: 2s - loss: 10.4352 - mean\_absolute\_error: 2.45252197/4840 [============>.................] - ETA: 2s - loss: 10.4455 - mean\_absolute\_error: 2.45362257/4840 [============>.................] - ETA: 2s - loss: 10.4338 - mean\_absolute\_error: 2.45262318/4840 [=============>................] - ETA: 2s - loss: 10.4489 - mean\_absolute\_error: 2.45472375/4840 [=============>................] - ETA: 2s - loss: 10.4472 - mean\_absolute\_error: 2.45422426/4840 [==============>...............] - ETA: 2s - loss: 10.4575 - mean\_absolute\_error: 2.45562484/4840 [==============>...............] - ETA: 2s - loss: 10.4686 - mean\_absolute\_error: 2.45712545/4840 [==============>...............] - ETA: 1s - loss: 10.4682 - mean\_absolute\_error: 2.45732601/4840 [===============>..............] - ETA: 1s - loss: 10.4651 - mean\_absolute\_error: 2.45702660/4840 [===============>..............] - ETA: 1s - loss: 10.4703 - mean\_absolute\_error: 2.45792719/4840 [===============>..............] - ETA: 1s - loss: 10.4779 - mean\_absolute\_error: 2.45922774/4840 [================>.............] - ETA: 1s - loss: 10.4978 - mean\_absolute\_error: 2.46172833/4840 [================>.............] - ETA: 1s - loss: 10.5037 - mean\_absolute\_error: 2.46262893/4840 [================>.............] - ETA: 1s - loss: 10.5105 - mean\_absolute\_error: 2.46352953/4840 [=================>............] - ETA: 1s - loss: 10.5143 - mean\_absolute\_error: 2.46353012/4840 [=================>............] - ETA: 1s - loss: 10.5057 - mean\_absolute\_error: 2.46243071/4840 [==================>...........] - ETA: 1s - loss: 10.5115 - mean\_absolute\_error: 2.46293131/4840 [==================>...........] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46223191/4840 [==================>...........] - ETA: 1s - loss: 10.5125 - mean\_absolute\_error: 2.46343250/4840 [===================>..........] - ETA: 1s - loss: 10.5123 - mean\_absolute\_error: 2.46303309/4840 [===================>..........] - ETA: 1s - loss: 10.5192 - mean\_absolute\_error: 2.46323369/4840 [===================>..........] - ETA: 1s - loss: 10.5103 - mean\_absolute\_error: 2.46193428/4840 [====================>.........] - ETA: 1s - loss: 10.5041 - mean\_absolute\_error: 2.46103488/4840 [====================>.........] - ETA: 1s - loss: 10.4980 - mean\_absolute\_error: 2.46023548/4840 [====================>.........] - ETA: 1s - loss: 10.4832 - mean\_absolute\_error: 2.45843608/4840 [=====================>........] - ETA: 1s - loss: 10.4724 - mean\_absolute\_error: 2.45693668/4840 [=====================>........] - ETA: 0s - loss: 10.4660 - mean\_absolute\_error: 2.45623724/4840 [======================>.......] - ETA: 0s - loss: 10.4742 - mean\_absolute\_error: 2.45733781/4840 [======================>.......] - ETA: 0s - loss: 10.4805 - mean\_absolute\_error: 2.45843838/4840 [======================>.......] - ETA: 0s - loss: 10.4753 - mean\_absolute\_error: 2.45793896/4840 [=======================>......] - ETA: 0s - loss: 10.4726 - mean\_absolute\_error: 2.45723954/4840 [=======================>......] - ETA: 0s - loss: 10.4745 - mean\_absolute\_error: 2.45754012/4840 [=======================>......] - ETA: 0s - loss: 10.4713 - mean\_absolute\_error: 2.45724071/4840 [========================>.....] - ETA: 0s - loss: 10.4785 - mean\_absolute\_error: 2.45794130/4840 [========================>.....] - ETA: 0s - loss: 10.4894 - mean\_absolute\_error: 2.45894190/4840 [========================>.....] - ETA: 0s - loss: 10.4953 - mean\_absolute\_error: 2.45994249/4840 [=========================>....] - ETA: 0s - loss: 10.4979 - mean\_absolute\_error: 2.46024309/4840 [=========================>....] - ETA: 0s - loss: 10.4994 - mean\_absolute\_error: 2.46074368/4840 [==========================>...] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.46044427/4840 [==========================>...] - ETA: 0s - loss: 10.4962 - mean\_absolute\_error: 2.46034487/4840 [==========================>...] - ETA: 0s - loss: 10.4988 - mean\_absolute\_error: 2.46064547/4840 [===========================>..] - ETA: 0s - loss: 10.4968 - mean\_absolute\_error: 2.46014607/4840 [===========================>..] - ETA: 0s - loss: 10.5022 - mean\_absolute\_error: 2.46084667/4840 [===========================>..] - ETA: 0s - loss: 10.4974 - mean\_absolute\_error: 2.46014727/4840 [============================>.] - ETA: 0s - loss: 10.5033 - mean\_absolute\_error: 2.46114788/4840 [============================>.] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.46094840/4840 [==============================] - 4s 897us/step - loss: 10.5033 - mean\_absolute\_error: 2.4614 - val\_loss: 11.4945 - val\_mean\_absolute\_error: 2.5796  
Epoch 99/100  
 1/4840 [..............................] - ETA: 9s - loss: 7.3431 - mean\_absolute\_error: 2.0493 60/4840 [..............................] - ETA: 4s - loss: 9.9801 - mean\_absolute\_error: 2.3834 116/4840 [..............................] - ETA: 4s - loss: 9.9533 - mean\_absolute\_error: 2.3906 163/4840 [>.............................] - ETA: 4s - loss: 9.9697 - mean\_absolute\_error: 2.3962 202/4840 [>.............................] - ETA: 4s - loss: 10.1112 - mean\_absolute\_error: 2.4137 251/4840 [>.............................] - ETA: 4s - loss: 10.2149 - mean\_absolute\_error: 2.4274 310/4840 [>.............................] - ETA: 4s - loss: 10.3280 - mean\_absolute\_error: 2.4395 371/4840 [=>............................] - ETA: 4s - loss: 10.3404 - mean\_absolute\_error: 2.4426 431/4840 [=>............................] - ETA: 4s - loss: 10.2861 - mean\_absolute\_error: 2.4354 489/4840 [==>...........................] - ETA: 4s - loss: 10.2677 - mean\_absolute\_error: 2.4292 549/4840 [==>...........................] - ETA: 3s - loss: 10.3369 - mean\_absolute\_error: 2.4365 607/4840 [==>...........................] - ETA: 3s - loss: 10.3052 - mean\_absolute\_error: 2.4322 667/4840 [===>..........................] - ETA: 3s - loss: 10.3171 - mean\_absolute\_error: 2.4354 728/4840 [===>..........................] - ETA: 3s - loss: 10.3073 - mean\_absolute\_error: 2.4319 788/4840 [===>..........................] - ETA: 3s - loss: 10.3961 - mean\_absolute\_error: 2.4457 848/4840 [====>.........................] - ETA: 3s - loss: 10.4007 - mean\_absolute\_error: 2.4479 907/4840 [====>.........................] - ETA: 3s - loss: 10.4332 - mean\_absolute\_error: 2.4511 965/4840 [====>.........................] - ETA: 3s - loss: 10.4318 - mean\_absolute\_error: 2.45061025/4840 [=====>........................] - ETA: 3s - loss: 10.4481 - mean\_absolute\_error: 2.45281079/4840 [=====>........................] - ETA: 3s - loss: 10.4430 - mean\_absolute\_error: 2.45161139/4840 [======>.......................] - ETA: 3s - loss: 10.4635 - mean\_absolute\_error: 2.45481197/4840 [======>.......................] - ETA: 3s - loss: 10.4730 - mean\_absolute\_error: 2.45601257/4840 [======>.......................] - ETA: 3s - loss: 10.4734 - mean\_absolute\_error: 2.45591315/4840 [=======>......................] - ETA: 3s - loss: 10.5037 - mean\_absolute\_error: 2.45831373/4840 [=======>......................] - ETA: 3s - loss: 10.5082 - mean\_absolute\_error: 2.45911433/4840 [=======>......................] - ETA: 3s - loss: 10.5198 - mean\_absolute\_error: 2.46161491/4840 [========>.....................] - ETA: 2s - loss: 10.5355 - mean\_absolute\_error: 2.46401551/4840 [========>.....................] - ETA: 2s - loss: 10.5454 - mean\_absolute\_error: 2.46521611/4840 [========>.....................] - ETA: 2s - loss: 10.5319 - mean\_absolute\_error: 2.46391669/4840 [=========>....................] - ETA: 2s - loss: 10.5330 - mean\_absolute\_error: 2.46481729/4840 [=========>....................] - ETA: 2s - loss: 10.5332 - mean\_absolute\_error: 2.46441788/4840 [==========>...................] - ETA: 2s - loss: 10.5299 - mean\_absolute\_error: 2.46361848/4840 [==========>...................] - ETA: 2s - loss: 10.5133 - mean\_absolute\_error: 2.46101908/4840 [==========>...................] - ETA: 2s - loss: 10.4953 - mean\_absolute\_error: 2.45891968/4840 [===========>..................] - ETA: 2s - loss: 10.5064 - mean\_absolute\_error: 2.45982025/4840 [===========>..................] - ETA: 2s - loss: 10.4946 - mean\_absolute\_error: 2.45782085/4840 [===========>..................] - ETA: 2s - loss: 10.4842 - mean\_absolute\_error: 2.45682144/4840 [============>.................] - ETA: 2s - loss: 10.4620 - mean\_absolute\_error: 2.45402204/4840 [============>.................] - ETA: 2s - loss: 10.4675 - mean\_absolute\_error: 2.45472261/4840 [=============>................] - ETA: 2s - loss: 10.4724 - mean\_absolute\_error: 2.45522319/4840 [=============>................] - ETA: 2s - loss: 10.4829 - mean\_absolute\_error: 2.45692376/4840 [=============>................] - ETA: 2s - loss: 10.4852 - mean\_absolute\_error: 2.45662434/4840 [==============>...............] - ETA: 2s - loss: 10.4752 - mean\_absolute\_error: 2.45602493/4840 [==============>...............] - ETA: 2s - loss: 10.4735 - mean\_absolute\_error: 2.45582551/4840 [==============>...............] - ETA: 1s - loss: 10.4677 - mean\_absolute\_error: 2.45512606/4840 [===============>..............] - ETA: 1s - loss: 10.4672 - mean\_absolute\_error: 2.45502661/4840 [===============>..............] - ETA: 1s - loss: 10.4648 - mean\_absolute\_error: 2.45502719/4840 [===============>..............] - ETA: 1s - loss: 10.4648 - mean\_absolute\_error: 2.45572775/4840 [================>.............] - ETA: 1s - loss: 10.4639 - mean\_absolute\_error: 2.45542833/4840 [================>.............] - ETA: 1s - loss: 10.4716 - mean\_absolute\_error: 2.45642892/4840 [================>.............] - ETA: 1s - loss: 10.4770 - mean\_absolute\_error: 2.45712950/4840 [=================>............] - ETA: 1s - loss: 10.4948 - mean\_absolute\_error: 2.45953009/4840 [=================>............] - ETA: 1s - loss: 10.4910 - mean\_absolute\_error: 2.45893067/4840 [==================>...........] - ETA: 1s - loss: 10.4804 - mean\_absolute\_error: 2.45753126/4840 [==================>...........] - ETA: 1s - loss: 10.4764 - mean\_absolute\_error: 2.45693185/4840 [==================>...........] - ETA: 1s - loss: 10.4913 - mean\_absolute\_error: 2.45883243/4840 [===================>..........] - ETA: 1s - loss: 10.4962 - mean\_absolute\_error: 2.45953302/4840 [===================>..........] - ETA: 1s - loss: 10.4954 - mean\_absolute\_error: 2.45963361/4840 [===================>..........] - ETA: 1s - loss: 10.5043 - mean\_absolute\_error: 2.46053419/4840 [====================>.........] - ETA: 1s - loss: 10.5061 - mean\_absolute\_error: 2.46093474/4840 [====================>.........] - ETA: 1s - loss: 10.5077 - mean\_absolute\_error: 2.46123531/4840 [====================>.........] - ETA: 1s - loss: 10.5025 - mean\_absolute\_error: 2.46023587/4840 [=====================>........] - ETA: 1s - loss: 10.4958 - mean\_absolute\_error: 2.45913644/4840 [=====================>........] - ETA: 1s - loss: 10.4945 - mean\_absolute\_error: 2.45923702/4840 [=====================>........] - ETA: 0s - loss: 10.4980 - mean\_absolute\_error: 2.45973758/4840 [======================>.......] - ETA: 0s - loss: 10.4922 - mean\_absolute\_error: 2.45893818/4840 [======================>.......] - ETA: 0s - loss: 10.4937 - mean\_absolute\_error: 2.45943877/4840 [=======================>......] - ETA: 0s - loss: 10.4969 - mean\_absolute\_error: 2.45963937/4840 [=======================>......] - ETA: 0s - loss: 10.4884 - mean\_absolute\_error: 2.45863997/4840 [=======================>......] - ETA: 0s - loss: 10.4838 - mean\_absolute\_error: 2.45824056/4840 [========================>.....] - ETA: 0s - loss: 10.4871 - mean\_absolute\_error: 2.45874115/4840 [========================>.....] - ETA: 0s - loss: 10.4849 - mean\_absolute\_error: 2.45864175/4840 [========================>.....] - ETA: 0s - loss: 10.4971 - mean\_absolute\_error: 2.46024234/4840 [=========================>....] - ETA: 0s - loss: 10.4992 - mean\_absolute\_error: 2.46054294/4840 [=========================>....] - ETA: 0s - loss: 10.5017 - mean\_absolute\_error: 2.46084353/4840 [=========================>....] - ETA: 0s - loss: 10.5097 - mean\_absolute\_error: 2.46194412/4840 [==========================>...] - ETA: 0s - loss: 10.5173 - mean\_absolute\_error: 2.46294471/4840 [==========================>...] - ETA: 0s - loss: 10.5107 - mean\_absolute\_error: 2.46204531/4840 [===========================>..] - ETA: 0s - loss: 10.5069 - mean\_absolute\_error: 2.46154590/4840 [===========================>..] - ETA: 0s - loss: 10.5034 - mean\_absolute\_error: 2.46144648/4840 [===========================>..] - ETA: 0s - loss: 10.5060 - mean\_absolute\_error: 2.46174706/4840 [============================>.] - ETA: 0s - loss: 10.5043 - mean\_absolute\_error: 2.46104766/4840 [============================>.] - ETA: 0s - loss: 10.5080 - mean\_absolute\_error: 2.46154826/4840 [============================>.] - ETA: 0s - loss: 10.5028 - mean\_absolute\_error: 2.46114840/4840 [==============================] - 4s 911us/step - loss: 10.5029 - mean\_absolute\_error: 2.4610 - val\_loss: 11.4957 - val\_mean\_absolute\_error: 2.5805  
Epoch 100/100  
 1/4840 [..............................] - ETA: 9s - loss: 10.4357 - mean\_absolute\_error: 2.5312 60/4840 [..............................] - ETA: 4s - loss: 10.6465 - mean\_absolute\_error: 2.4630 119/4840 [..............................] - ETA: 4s - loss: 10.5563 - mean\_absolute\_error: 2.4697 178/4840 [>.............................] - ETA: 3s - loss: 10.4463 - mean\_absolute\_error: 2.4542 237/4840 [>.............................] - ETA: 3s - loss: 10.4588 - mean\_absolute\_error: 2.4539 297/4840 [>.............................] - ETA: 3s - loss: 10.6505 - mean\_absolute\_error: 2.4809 350/4840 [=>............................] - ETA: 3s - loss: 10.6515 - mean\_absolute\_error: 2.4831 410/4840 [=>............................] - ETA: 3s - loss: 10.6399 - mean\_absolute\_error: 2.4809 468/4840 [=>............................] - ETA: 3s - loss: 10.6347 - mean\_absolute\_error: 2.4818 526/4840 [==>...........................] - ETA: 3s - loss: 10.5545 - mean\_absolute\_error: 2.4719 585/4840 [==>...........................] - ETA: 3s - loss: 10.5926 - mean\_absolute\_error: 2.4766 644/4840 [==>...........................] - ETA: 3s - loss: 10.6268 - mean\_absolute\_error: 2.4796 702/4840 [===>..........................] - ETA: 3s - loss: 10.5316 - mean\_absolute\_error: 2.4668 760/4840 [===>..........................] - ETA: 3s - loss: 10.5343 - mean\_absolute\_error: 2.4628 819/4840 [====>.........................] - ETA: 3s - loss: 10.5306 - mean\_absolute\_error: 2.4619 879/4840 [====>.........................] - ETA: 3s - loss: 10.4897 - mean\_absolute\_error: 2.4564 938/4840 [====>.........................] - ETA: 3s - loss: 10.4641 - mean\_absolute\_error: 2.4542 998/4840 [=====>........................] - ETA: 3s - loss: 10.4885 - mean\_absolute\_error: 2.45611058/4840 [=====>........................] - ETA: 3s - loss: 10.4727 - mean\_absolute\_error: 2.45451116/4840 [=====>........................] - ETA: 3s - loss: 10.4909 - mean\_absolute\_error: 2.45711176/4840 [======>.......................] - ETA: 3s - loss: 10.5034 - mean\_absolute\_error: 2.45901237/4840 [======>.......................] - ETA: 3s - loss: 10.4723 - mean\_absolute\_error: 2.45581296/4840 [=======>......................] - ETA: 3s - loss: 10.4747 - mean\_absolute\_error: 2.45531355/4840 [=======>......................] - ETA: 2s - loss: 10.4571 - mean\_absolute\_error: 2.45281414/4840 [=======>......................] - ETA: 2s - loss: 10.4653 - mean\_absolute\_error: 2.45511475/4840 [========>.....................] - ETA: 2s - loss: 10.4586 - mean\_absolute\_error: 2.45431534/4840 [========>.....................] - ETA: 2s - loss: 10.4384 - mean\_absolute\_error: 2.45201594/4840 [========>.....................] - ETA: 2s - loss: 10.4378 - mean\_absolute\_error: 2.45271654/4840 [=========>....................] - ETA: 2s - loss: 10.4310 - mean\_absolute\_error: 2.45111714/4840 [=========>....................] - ETA: 2s - loss: 10.4410 - mean\_absolute\_error: 2.45241775/4840 [==========>...................] - ETA: 2s - loss: 10.4635 - mean\_absolute\_error: 2.45531834/4840 [==========>...................] - ETA: 2s - loss: 10.4423 - mean\_absolute\_error: 2.45281892/4840 [==========>...................] - ETA: 2s - loss: 10.4521 - mean\_absolute\_error: 2.45431950/4840 [===========>..................] - ETA: 2s - loss: 10.4473 - mean\_absolute\_error: 2.45332009/4840 [===========>..................] - ETA: 2s - loss: 10.4509 - mean\_absolute\_error: 2.45382068/4840 [===========>..................] - ETA: 2s - loss: 10.4351 - mean\_absolute\_error: 2.45162127/4840 [============>.................] - ETA: 2s - loss: 10.4354 - mean\_absolute\_error: 2.45232186/4840 [============>.................] - ETA: 2s - loss: 10.4311 - mean\_absolute\_error: 2.45212246/4840 [============>.................] - ETA: 2s - loss: 10.4185 - mean\_absolute\_error: 2.45012305/4840 [=============>................] - ETA: 2s - loss: 10.4165 - mean\_absolute\_error: 2.44952365/4840 [=============>................] - ETA: 2s - loss: 10.4180 - mean\_absolute\_error: 2.44912425/4840 [==============>...............] - ETA: 2s - loss: 10.4247 - mean\_absolute\_error: 2.45022485/4840 [==============>...............] - ETA: 2s - loss: 10.4404 - mean\_absolute\_error: 2.45292543/4840 [==============>...............] - ETA: 1s - loss: 10.4375 - mean\_absolute\_error: 2.45262604/4840 [===============>..............] - ETA: 1s - loss: 10.4452 - mean\_absolute\_error: 2.45342664/4840 [===============>..............] - ETA: 1s - loss: 10.4535 - mean\_absolute\_error: 2.45382724/4840 [===============>..............] - ETA: 1s - loss: 10.4591 - mean\_absolute\_error: 2.45472784/4840 [================>.............] - ETA: 1s - loss: 10.4578 - mean\_absolute\_error: 2.45442842/4840 [================>.............] - ETA: 1s - loss: 10.4540 - mean\_absolute\_error: 2.45432901/4840 [================>.............] - ETA: 1s - loss: 10.4728 - mean\_absolute\_error: 2.45662961/4840 [=================>............] - ETA: 1s - loss: 10.4622 - mean\_absolute\_error: 2.45493021/4840 [=================>............] - ETA: 1s - loss: 10.4620 - mean\_absolute\_error: 2.45493080/4840 [==================>...........] - ETA: 1s - loss: 10.4659 - mean\_absolute\_error: 2.45533139/4840 [==================>...........] - ETA: 1s - loss: 10.4665 - mean\_absolute\_error: 2.45583197/4840 [==================>...........] - ETA: 1s - loss: 10.4657 - mean\_absolute\_error: 2.45603256/4840 [===================>..........] - ETA: 1s - loss: 10.4613 - mean\_absolute\_error: 2.45573317/4840 [===================>..........] - ETA: 1s - loss: 10.4663 - mean\_absolute\_error: 2.45613379/4840 [===================>..........] - ETA: 1s - loss: 10.4809 - mean\_absolute\_error: 2.45813439/4840 [====================>.........] - ETA: 1s - loss: 10.4842 - mean\_absolute\_error: 2.45903498/4840 [====================>.........] - ETA: 1s - loss: 10.4868 - mean\_absolute\_error: 2.45923559/4840 [=====================>........] - ETA: 1s - loss: 10.4954 - mean\_absolute\_error: 2.46013619/4840 [=====================>........] - ETA: 1s - loss: 10.4836 - mean\_absolute\_error: 2.45883680/4840 [=====================>........] - ETA: 0s - loss: 10.4824 - mean\_absolute\_error: 2.45923739/4840 [======================>.......] - ETA: 0s - loss: 10.4839 - mean\_absolute\_error: 2.45933800/4840 [======================>.......] - ETA: 0s - loss: 10.4851 - mean\_absolute\_error: 2.45903861/4840 [======================>.......] - ETA: 0s - loss: 10.4857 - mean\_absolute\_error: 2.45873921/4840 [=======================>......] - ETA: 0s - loss: 10.4863 - mean\_absolute\_error: 2.45883982/4840 [=======================>......] - ETA: 0s - loss: 10.4886 - mean\_absolute\_error: 2.45914041/4840 [========================>.....] - ETA: 0s - loss: 10.4820 - mean\_absolute\_error: 2.45824101/4840 [========================>.....] - ETA: 0s - loss: 10.4829 - mean\_absolute\_error: 2.45844162/4840 [========================>.....] - ETA: 0s - loss: 10.4798 - mean\_absolute\_error: 2.45824222/4840 [=========================>....] - ETA: 0s - loss: 10.4802 - mean\_absolute\_error: 2.45774281/4840 [=========================>....] - ETA: 0s - loss: 10.4821 - mean\_absolute\_error: 2.45824340/4840 [=========================>....] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45884399/4840 [==========================>...] - ETA: 0s - loss: 10.4826 - mean\_absolute\_error: 2.45864450/4840 [==========================>...] - ETA: 0s - loss: 10.4866 - mean\_absolute\_error: 2.45894508/4840 [==========================>...] - ETA: 0s - loss: 10.4823 - mean\_absolute\_error: 2.45834567/4840 [===========================>..] - ETA: 0s - loss: 10.4782 - mean\_absolute\_error: 2.45784626/4840 [===========================>..] - ETA: 0s - loss: 10.4792 - mean\_absolute\_error: 2.45794677/4840 [===========================>..] - ETA: 0s - loss: 10.4830 - mean\_absolute\_error: 2.45864730/4840 [============================>.] - ETA: 0s - loss: 10.4856 - mean\_absolute\_error: 2.45914784/4840 [============================>.] - ETA: 0s - loss: 10.4909 - mean\_absolute\_error: 2.46004836/4840 [============================>.] - ETA: 0s - loss: 10.5036 - mean\_absolute\_error: 2.46144840/4840 [==============================] - 4s 903us/step - loss: 10.5028 - mean\_absolute\_error: 2.4613 - val\_loss: 11.4951 - val\_mean\_absolute\_error: 2.5805

To measure the change in the mean\_absolute\_error statistic within my epochs (or run through the datasets) during the attempt to fit the Machine Learning model above as they were being completed, I made a line-graph visualization to see the fluctuation in the error as shown below.

```{python}  
# Plot the Validation Mean Absolute Error throughout the fitting of the model across epochs  
pd.Series(book\_rec\_history.history["val\_loss"][15:]).plot(logy=False, color="gold")  
plt.xlabel("Epoch")  
plt.ylabel("Validation Error")  
plt.title("Change in Validation Mean Absolute Error Across Epochs")  
plt.show()  
  
print("Minimum MSE:", min(book\_rec\_history.history["val\_loss"]))  
```

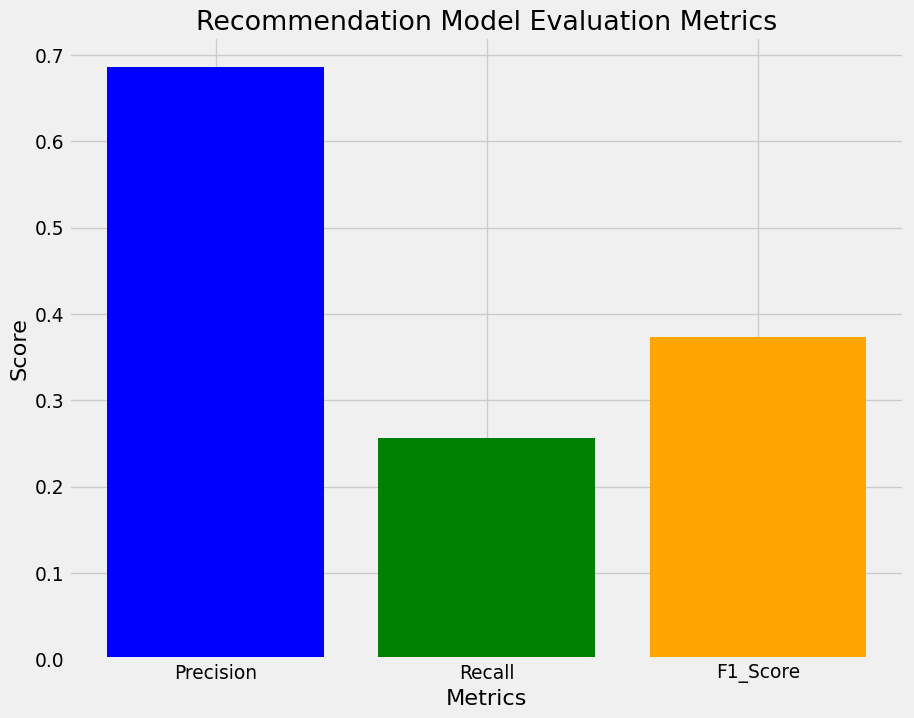


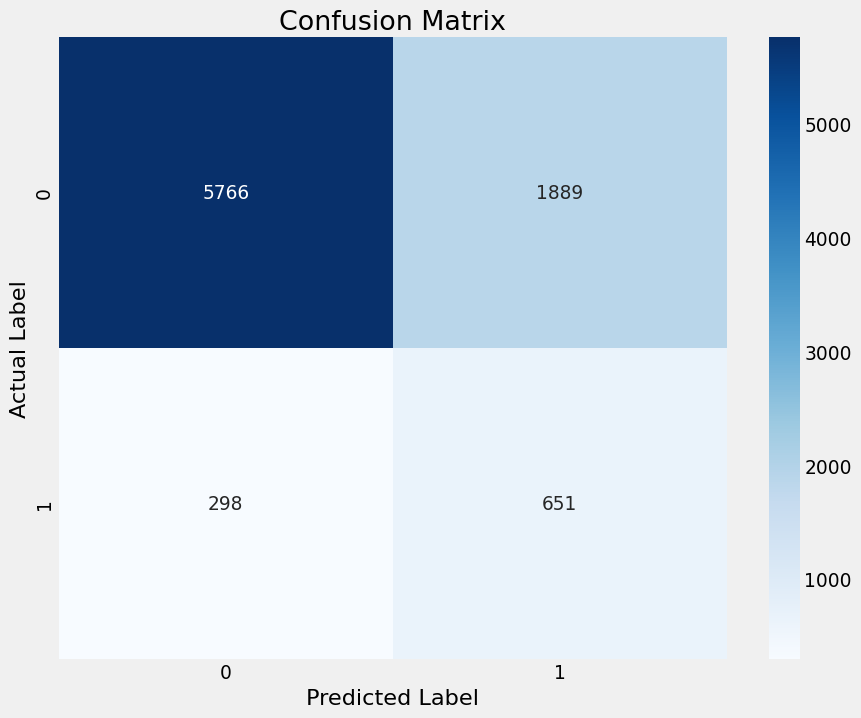
Minimum MSE: 11.460691452026367

With the Machine Learning model fitted, it would be a good time to evaluate the effectiveness of my model. Thus, I will calculate metrics (as shown below) such as Precision Score, ROC-AUC (Receiver Operating Characteristic (Curve) - Area Under the Curve) Score, F1 Score, Recall Score, and the Confusion Matrix. For the classification metrics, I applied a threshold rating of 5.0 or above to indicate as an acceptable rating to recommend a book, based on the logic that there would be more positive than negative reviews for that book-title, on average. All of the calcuations are shown in the following code snippet as well as its corresponding visualizations.

```{python}  
predicted\_ratings = model.predict(x=(X\_test["New-User-ID"], X\_test["New-ISBN"])).flatten()  
  
book\_rec\_history\_model\_loss, book\_rec\_history\_model\_accuracy = model.evaluate(x=(X\_test["New-User-ID"], X\_test["New-ISBN"]), y=X\_test["Book-Rating"])  
book\_rec\_history\_model\_accuracy /= 10  
  
# Threshold the predicted ratings to binary-classified recommendations (e.g., using a threshold of >= 5 for recommending book)  
threshold = 5  
predicted\_labels\_bin\_classify = (predicted\_ratings.copy() >= threshold).astype(int)  
actual\_labels\_bin\_classify = (X\_test["Book-Rating"].copy() >= threshold).astype(int)  
  
actual\_ratings\_int = predicted\_labels\_bin\_classify.copy().astype(int)  
predicted\_ratings\_int = actual\_labels\_bin\_classify.copy().astype(int)  
clf\_report = pd.DataFrame(classification\_report(y\_true=actual\_ratings\_int, y\_pred=predicted\_ratings\_int, output\_dict=True, zero\_division=0))  
  
y\_test\_book\_rating = predicted\_labels\_bin\_classify  
y\_pred\_book\_rating = actual\_labels\_bin\_classify  
  
avg\_precision\_score = average\_precision\_score(y\_true=actual\_labels\_bin\_classify, y\_score=predicted\_labels\_bin\_classify)  
  
# Compute and output statistics for Average Precision, Accuracy, and ROC AUC Scores as well as the Classifcation Report  
print(f"Average Precision Score (When Compared to Test Set): {avg\_precision\_score \* 100:.2f}%")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"Accuracy Score (When Compared to Test Set): {book\_rec\_history\_model\_accuracy \* 100:.2f}%)")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"ROC AUC Score: {roc\_auc\_score(y\_test\_book\_rating, y\_pred\_book\_rating) \* 100:.2f}%")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"CLASSIFICATION REPORT:\n{clf\_report}")  
  
# Calculate and output Precision, Recall, F1-Score, and Confusion Matrix  
precision, recall, f1\_score, \_ = precision\_recall\_fscore\_support(y\_true=actual\_labels\_bin\_classify, y\_pred=predicted\_labels\_bin\_classify, average='binary')  
model\_performance\_metrics: [str] = ["Precision", "Recall", "F1\_Score"]  
model\_performance\_metrics\_values: [float] = [precision, recall, f1\_score]  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"Precision Score: {precision \* 100:.2f}%")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"Recall Score: {recall \* 100:.2f}%")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"F1 Score: {f1\_score \* 100:.2f}%")  
print("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_")  
print(f"Confusion Matrix:\n{confusion\_matrix(y\_test\_book\_rating, y\_pred\_book\_rating)}")  
  
plt.figure(figsize=(10, 8))  
plt.bar(model\_performance\_metrics, model\_performance\_metrics\_values, color=["blue", "green", "orange"])  
plt.xlabel("Metrics")  
plt.ylabel("Score")  
plt.title("Recommendation Model Evaluation Metrics")  
plt.show()  
  
# Create the confusion matrix  
conf\_matrix = confusion\_matrix(y\_test\_book\_rating, y\_pred\_book\_rating)  
  
# Plot the confusion matrix  
plt.figure(figsize=(10, 8))  
sns.heatmap(conf\_matrix, annot=True, fmt='d', cmap='Blues')  
plt.xlabel('Predicted Label')  
plt.ylabel('Actual Label')  
plt.title('Confusion Matrix')  
plt.show()  
```

1/269 [..............................] - ETA: 12s 67/269 [======>.......................] - ETA: 0s 136/269 [==============>...............] - ETA: 0s207/269 [======================>.......] - ETA: 0s269/269 [==============================] - 0s 742us/step  
 1/269 [..............................] - ETA: 5s - loss: 9.2931 - mean\_absolute\_error: 2.3373 65/269 [======>.......................] - ETA: 0s - loss: 10.8645 - mean\_absolute\_error: 2.5045131/269 [=============>................] - ETA: 0s - loss: 11.2034 - mean\_absolute\_error: 2.5427196/269 [====================>.........] - ETA: 0s - loss: 11.4705 - mean\_absolute\_error: 2.5752262/269 [============================>.] - ETA: 0s - loss: 11.4878 - mean\_absolute\_error: 2.5768269/269 [==============================] - 0s 778us/step - loss: 11.4817 - mean\_absolute\_error: 2.5757  
Average Precision Score (When Compared to Test Set): 39.54%  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Accuracy Score (When Compared to Test Set): 25.76%)  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
ROC AUC Score: 71.96%  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
CLASSIFICATION REPORT:  
 0 1 accuracy macro avg weighted avg  
precision 0.950858 0.256299 0.745816 0.603578 0.874249  
recall 0.753233 0.685985 0.745816 0.719609 0.745816  
f1-score 0.840586 0.373173 0.745816 0.606879 0.789032  
support 7655.000000 949.000000 0.745816 8604.000000 8604.000000  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Precision Score: 68.60%  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Recall Score: 25.63%  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
F1 Score: 37.32%  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Confusion Matrix:  
[[5766 1889]  
 [ 298 651]]





## Conclusions

* Based on the Accuracy Score at 25.75%, Precision Score at 68.86%, and Recall Score at 25.51%, I found that my simple Book Recommendation Machine Learning model was not as good as I hoped in utilzing the train and validation datasets to fit my model in order to evaluate with my testing dataset. Looking at back my steps / approach, I realize that I may have overfitted by a great amount by training my Machine Learning model above approximately 10-15 epochs. When looking closely at the Change in Validation Mean Absolute Error Across Epochs Visualization, the validation error (i.e. the validation loss) was at its lowest in this duration and only went up from there in subsequent epoch training iterations. I would most likely re-train the model if I did this blog post project again.
* Utimately, I learned a great deal from this blog post as I now better understand how basic Input/Embeddings/Output from Tensorflow works in the topic of neural networks in Machine Learning. Of course, seeing the real life implications of recommendation systems like this (but scaled up on a much higher, economic level) makes me appreciate the complexity of this disclipine and ML-subfield because reaching the end of this blog post was nonetheless difficult for my basic implementation. I cannot imagine what it must be like to have to maintain larger, production-critical systems that tackle these problems on a daily basis.

## Reference Sources and Citations (IEEE Format)

To complete this blog post, I used the following online sources as references for developing this:

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