

Data Collection and Preprocessing Phase

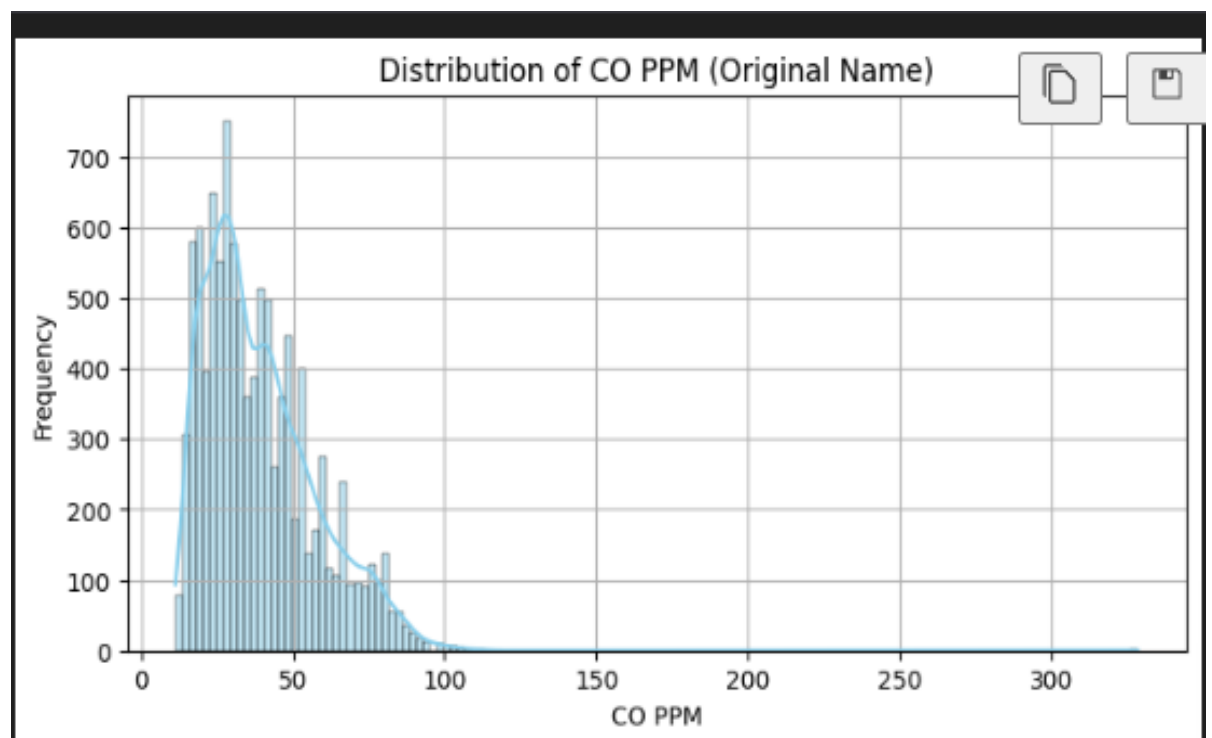
Date	9 JULY 2024
Team ID	739818
Project Title	EcoForecast:AI-powered prediction of carbon monoxide levels
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

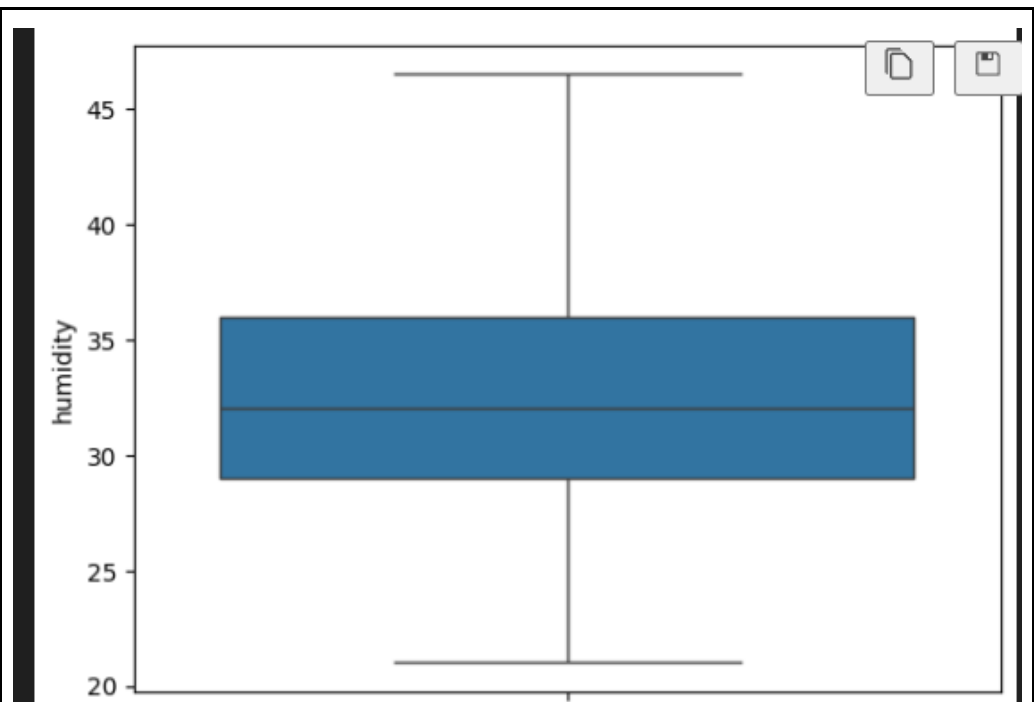
Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

[illegible]

Bivariate Analysis



Outliers



Data Preprocessing Code Screenshots

Loading Data

```

      temp      humidity      ppm
count  10308.000000  10308.000000  10308.000000
mean    38.297051    32.617288    39.145906
std     4.053829     5.793688    18.363310
min     28.000000    21.000000    11.270000
25%     35.000000    29.000000    24.850000
50%     39.000000    32.000000    34.520000
75%     41.000000    36.000000    49.670000
max     45.000000    55.000000   328.600000
  
```

Data
Transformation

```

0.75    36.0
0.25    29.0
Name: humidity, dtype: float64
36.0
29.0
7.0
46.5
18.5
  
```

Feature
Engineering

Attached the codes in final submission.