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Run All Code Draft Session (9m)

```python
# Import necessary libraries
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Corrected file path and added encoding
file_path = '/kaggle/input/smartphone-uncleaned-dataset/smartphones - smartphones.csv'

# Initialize df outside the loop
df = pd.DataFrame()

# Try reading with different delimiters and skip lines with too many fields
delimiters = [',', '\t', ';']
for delimiter in delimiters:
    try:
        df = pd.read_csv(file_path, encoding='latin-1', delimiter=delimiter)
        break  # Break the loop if successfully read
    except pd.errors.ParserError as e:
        print(f"Failed to read with delimiter '{delimiter}': {e}")
        df = pd.DataFrame()  # Reset df if an exception occurs
        continue

# Check if df is empty (indicating an issue with all delimiters)
```

smartphones - sm...

Notebook

Data

Add Data

Input

smartphone-uncleaned-d

smartphones - smartphone

Output (56KB / 19.5GB)

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Models

Add Models

kaggle.com/code/sudvnkdjkjdckjsdnjk/notebookdcce41f290/edit

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Run All Code Draft Session (10m)

```python
    print("Failed to read the dataset with any delimiter. Please check the file format.")
else:


    # Step 2: Initial Exploration
    print("First few rows of the dataset:")
    print(df.head())

    print("\nDataset Information:")
    print(df.info())

    # Step 3: Handling Missing Values (Example: Replace missing values with the mean)
    df.fillna(df.mean(), inplace=True)

    # Step 4: Descriptive Statistics
    print("\nDescriptive Statistics:")
    print(df.describe())

    # Step 5: Correlation Analysis
    correlation_matrix = df.corr()
    plt.figure(figsize=(12, 10))
    sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f")
    plt.title("Correlation Matrix")
    plt.show()
```

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Notebook

Data

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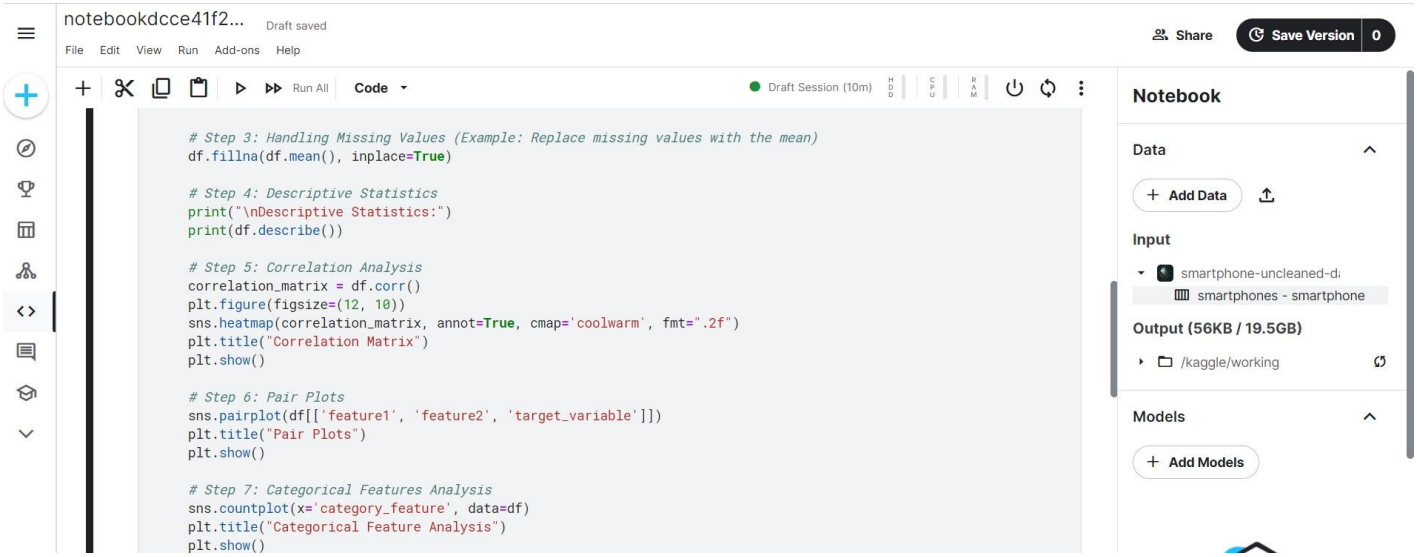
Models

Add Models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Code
Draft Session (10m)
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plt.title("Correlation Matrix")
plt.show()
# Step 6: Pair Plots
sns.pairplot(df[['feature1', 'feature2', 'target_variable']])
plt.title("Pair Plots")
plt.show()
# Step 7: Categorical Features Analysis
sns.countplot(x='category_feature', data=df)
plt.title("Categorical Feature Analysis")
plt.show()
Notebook
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