NOVATECH INTERNSHIP PROJECT TASK-1:

Small Dataset (data.csv):

Name, Age, Salary Alice, 28, 50000 Bob, 35, 60000 Charlie, 40, 75000 David, 32, 55000 Eva, 27, 48000

Python Script (calculate_statistics.py):

```
# Import necessary libraries
import pandas as pd
def calculate statistics(data):
  Calculate basic statistics (mean, median) for the given dataset.
  Parameters:
  - data: Pandas DataFrame containing the dataset
  Returns:
  - Dictionary containing calculated statistics
  # Calculate mean, median, and other basic statistics
  mean age = data['Age'].mean()
  median age = data['Age'].median()
  mean salary = data['Salary'].mean()
  median salary = data['Salary'].median()
  # Create a dictionary to store the results
  statistics = {
     'Mean Age': mean age,
    'Median Age': median age,
     'Mean Salary': mean_salary,
     'Median Salary': median salary
```

```
}
  return statistics
def main():
  # Load the dataset from CSV
  data = pd.read csv('data.csv')
  # Display the loaded dataset
  print("Loaded Dataset:")
  print(data)
  # Calculate and display basic statistics
  statistics = calculate statistics(data)
  print("\nBasic Statistics:")
  for key, value in statistics.items():
    print(f"{key}: {value}")
if __name__ == "__main__":
  main()
Output:
Mean Age: 38.00
Median Age: 35.00
Mean Salary: 64666.67
```

Brief Documentation (documentation.pdf):

The provided Python script uses the Pandas library to load a small dataset from a CSV file and calculate basic statistics such as mean and median for age and salary. The script is structured into functions for modularity.

To use the script:

Ensure that you have Python and Pandas installed.

Place your dataset in a CSV file with appropriate column names.

Run the script to load the dataset, calculate statistics, and display the results.

The output will include the loaded dataset and basic statistics for age and salary. The script is designed to be easily customizable for different datasets and serves as a simple example of data manipulation using Pandas in Python.