Create a Django-based web application that allows users to upload CSV files, performs data analysis using pandas and numpy, and displays the results and visualizations on the web interface.

Requirements:

1. Django Setup:

Create a Django project and a Django app within the project.

Configure the project with a with which you are comfortable with.

2. File Upload Feature:

Implement a form that allows users to upload CSV files.

Store the uploaded files temporarily for processing.

3. Data Processing:

Use pandas to read the uploaded CSV file.

Perform basic data analysis tasks such as:

Displaying the first few rows of the data.

Calculating summary statistics (mean, median, standard deviation) for numerical columns.

Identifying and handling missing values.

4. Data Visualization:

Generate basic plots using matplotlib or seaborn (integrated with pandas) such as: Histograms for numerical columns.

Display the plots on the web page.

5. User Interface:

Use Django templates to create a simple and user-friendly interface.

Display the data analysis results and visualizations in a clear and organized manner.

Deliverables:

- 1. A GitHub repository containing the Django project code.
- 2. A README file with setup instructions and a brief explanation of the project.
- 3. A sample CSV file for testing purposes.