UIDAI DATA HACKATHON 2026

Team Details:

- Team Name: Visualizers
- Team ID: UIDAI_11817

Team Members:

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PROBLEM STATEMENT

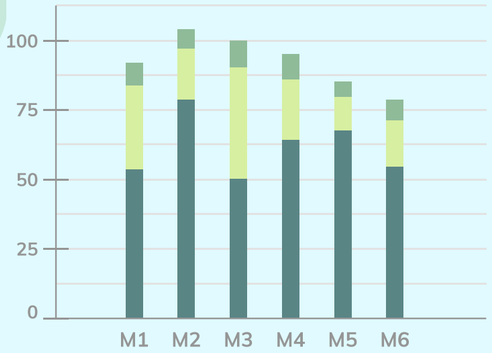
Unlocking Societal Trends through Aadhaar Enrolment & Update Patterns

Objective of Project:

- To identify patterns, trends, and concentration areas in Aadhaar enrolment and updates by analysing UIDAI-provided datasets.
- The insights aim to support data-driven understanding of enrolment intensity, demographic distribution, and biometric authentication characteristics across regions and time.

APPROACH

- Perform Exploratory Data Analysis (EDA) on the UIDAI Aadhaar enrolment dataset.
- Clean and aggregate data using Python analytical tools.
- Visualize insights using bar charts, line charts, pie charts, and heatmaps to identify key patterns and trends.



DATASET USED :

1. Aadhar Enrolment Dataset (3 files)
2. Aadhar Demographic Dataset(5 files)
3. Aadhar Biometric Dataset(5 files)

STEPS :

1. Importing all the libraries
2. Loading the respective dataset-1
3. Analyzing the Data
4. Data Cleaning(Handling missing values)
5. The above 4 steps will be repeated for other datasets
6. Merge all the datasets in each folder together(After all datasets analysis is done)
7. At last we have shown 5 graphical visualization of these datasets in each file.

METHODOLOGY

DATA CLEANING AND PREPROCESSING

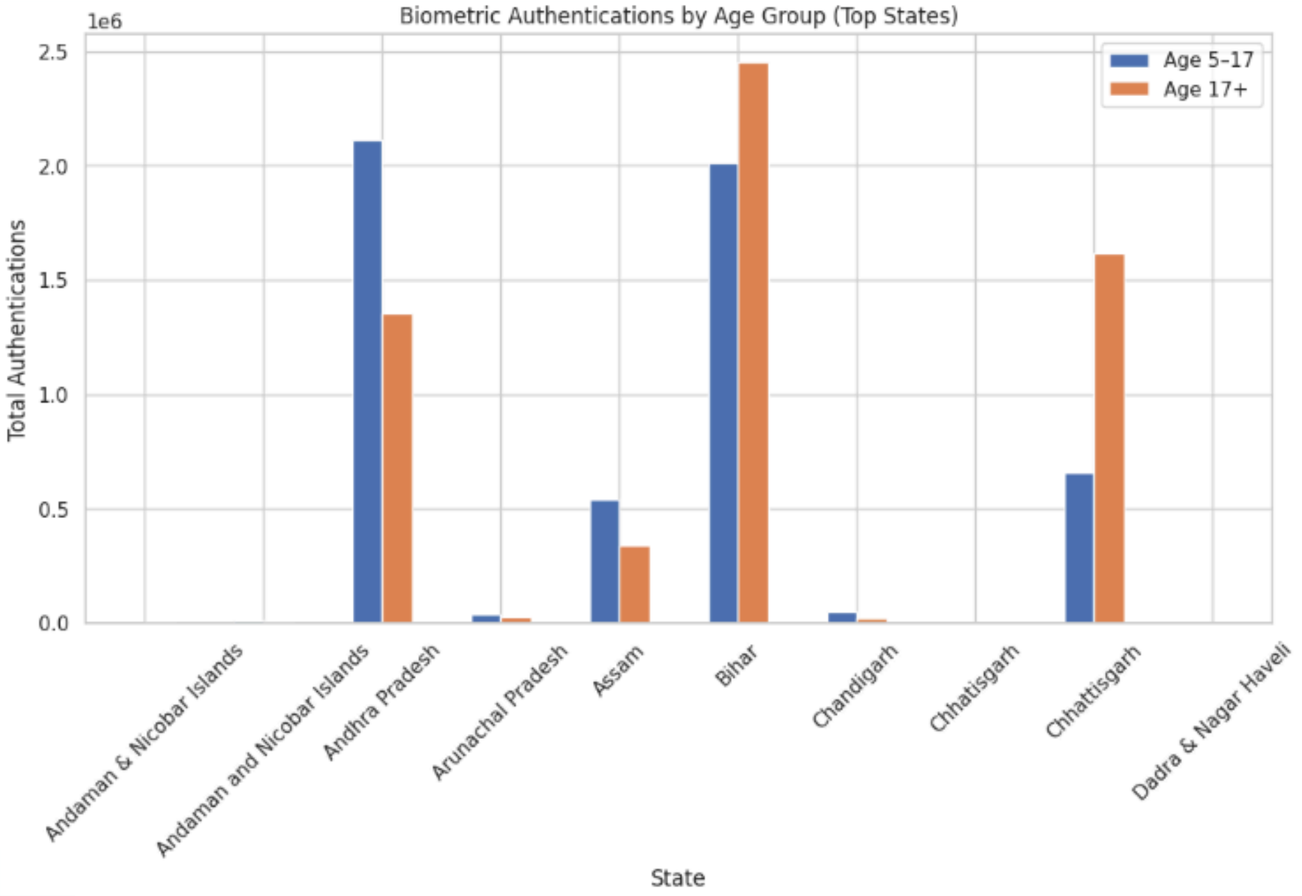
- Loaded the dataset using Pandas.
- Checked for missing values
- Converted the date column to datetime format for time-series
  analysis.
- Created a derived column:
  total_registrations = demo_age_5_17 + demo_age_17_

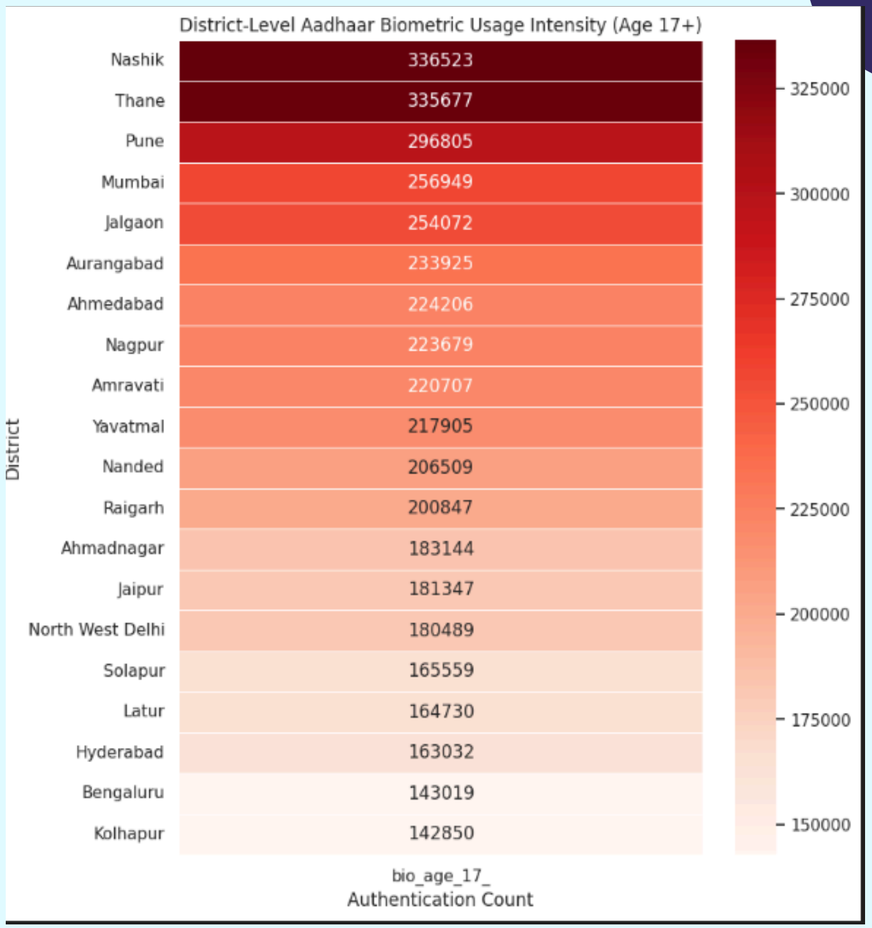
DATA AGGREGATION AND TRANSFORMATION

Aggregated data at multiple levels:

- State-wise total enrolments
- District-wise enrolment distribution
- Date-wise enrolment trends
- Age-group-wise contribution analysis

DATA ANALYSIS AND VISUALISATION





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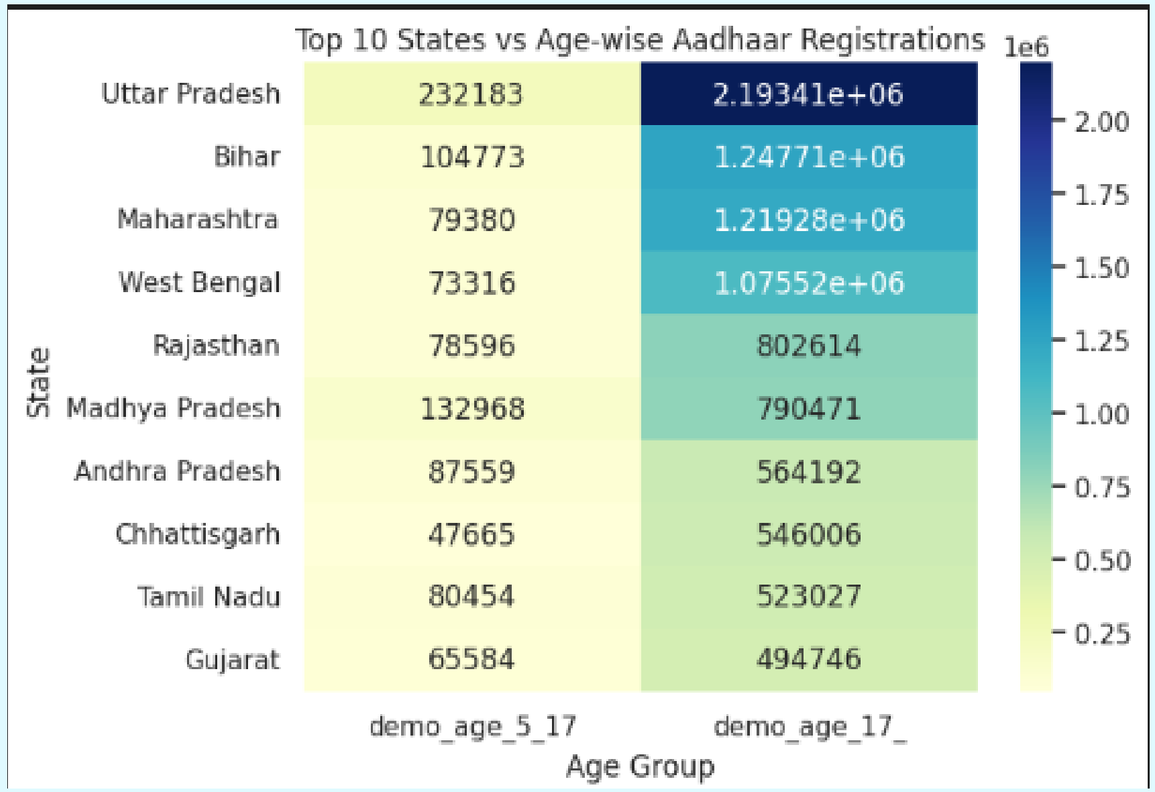

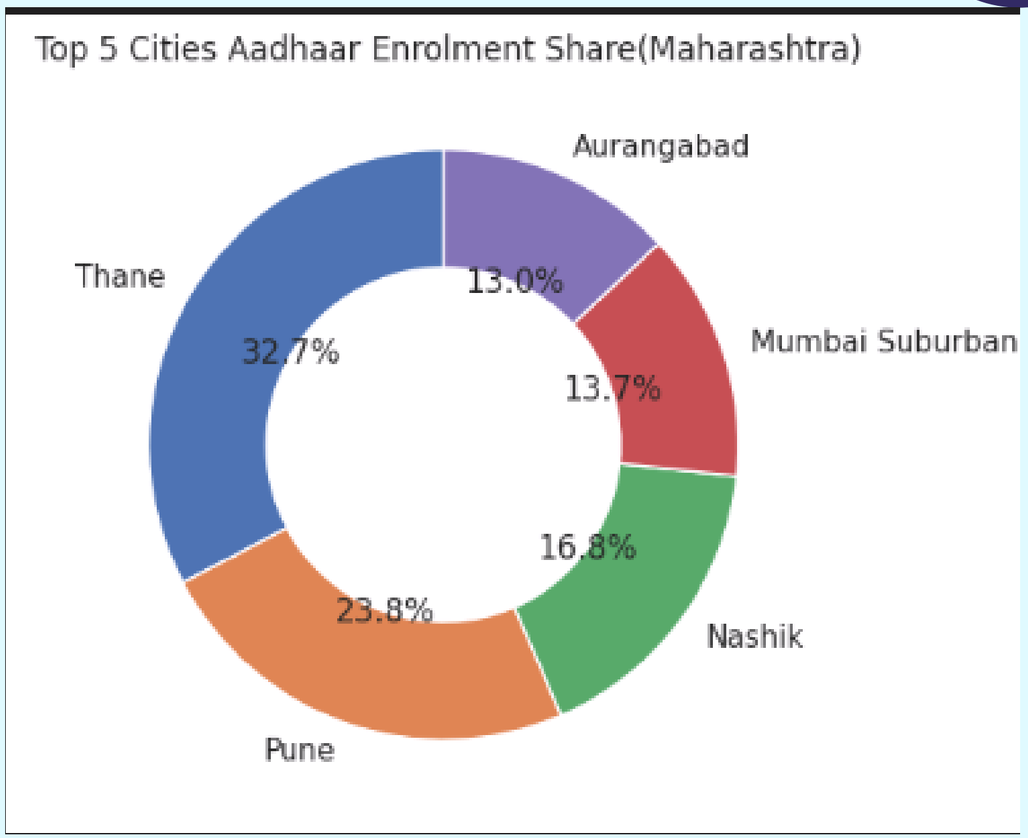

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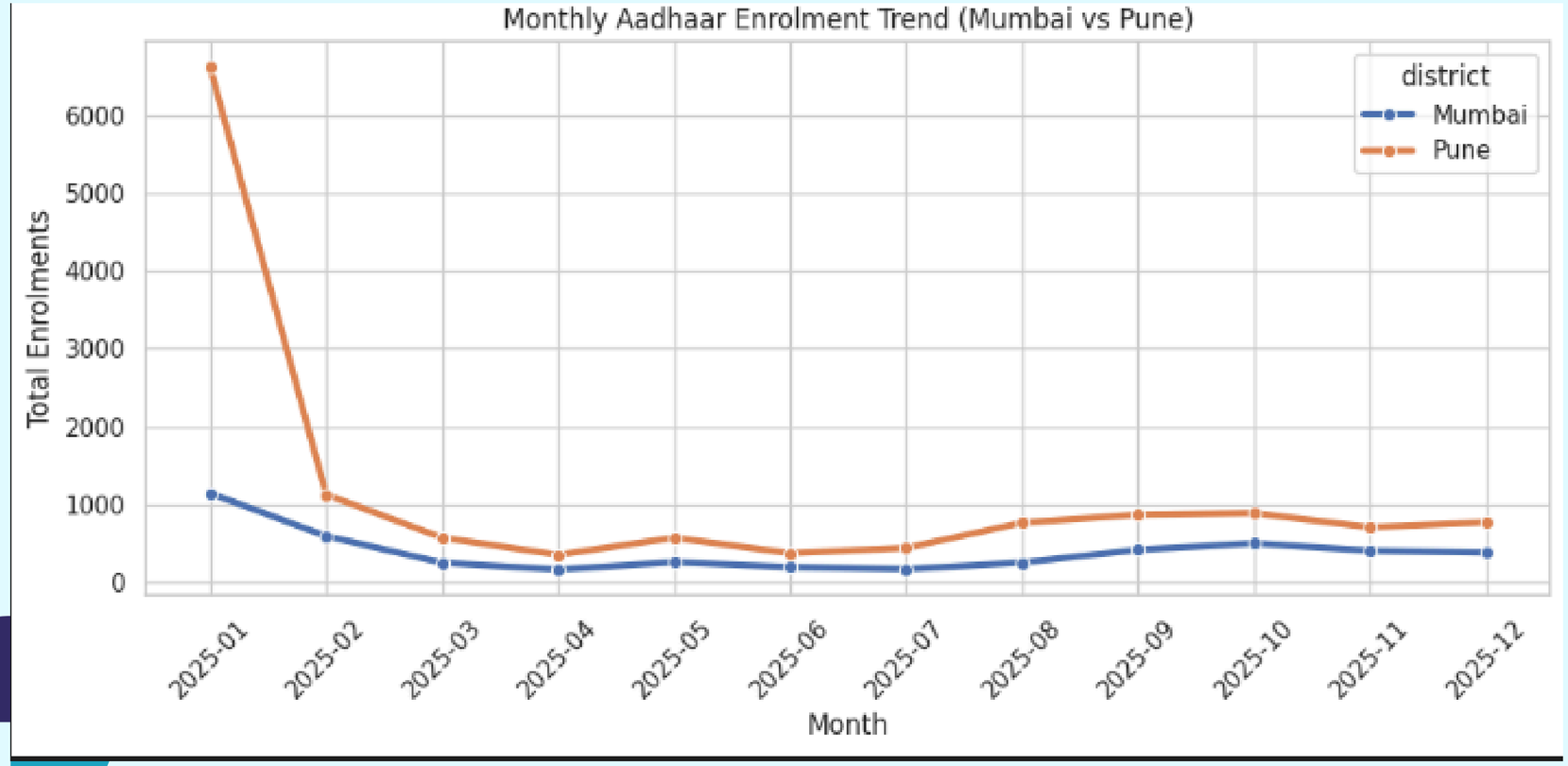

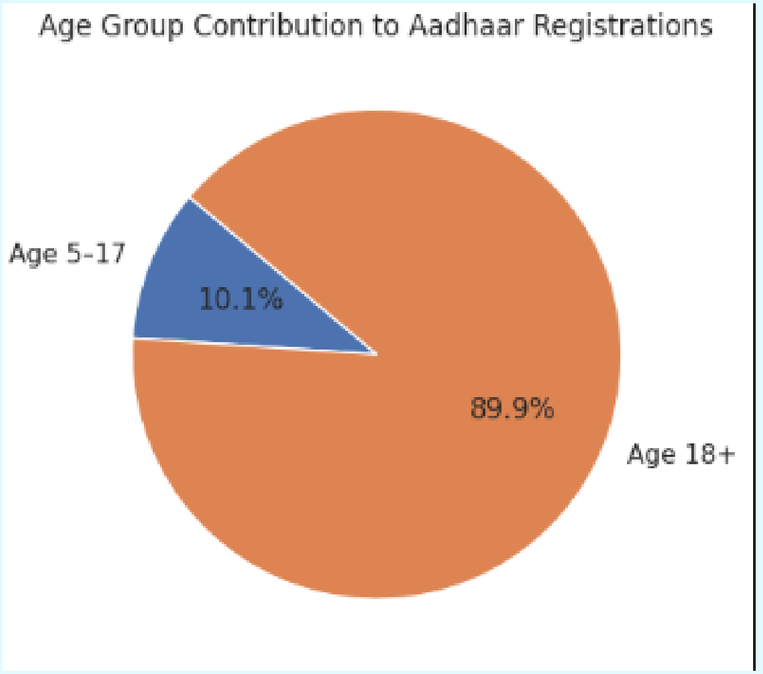

TECHNICAL IMPLEMENTATION

- Tools & Libraries Used:
  - Python
  - Pandas - Data Manipulation,
  - Matplotlib & Seaborn- Data Visualization
  - Google Colab for interactive analysis.

- Code / Notebook:
  - All analysis is performed in Google Colab and Code snippets are shared ahead.

THANK YOU