STGI Hackathon

DATA ANALYSIS USING DJANGO

Presented By:
Team Innovate Xpress

WORK-FLOW:

Download H1B Data (2016-2019)
and convert to CSV format

Create a Django Server and write
pre-processing code in python

added the data to postgreSQL

Create a Django App-Based API:

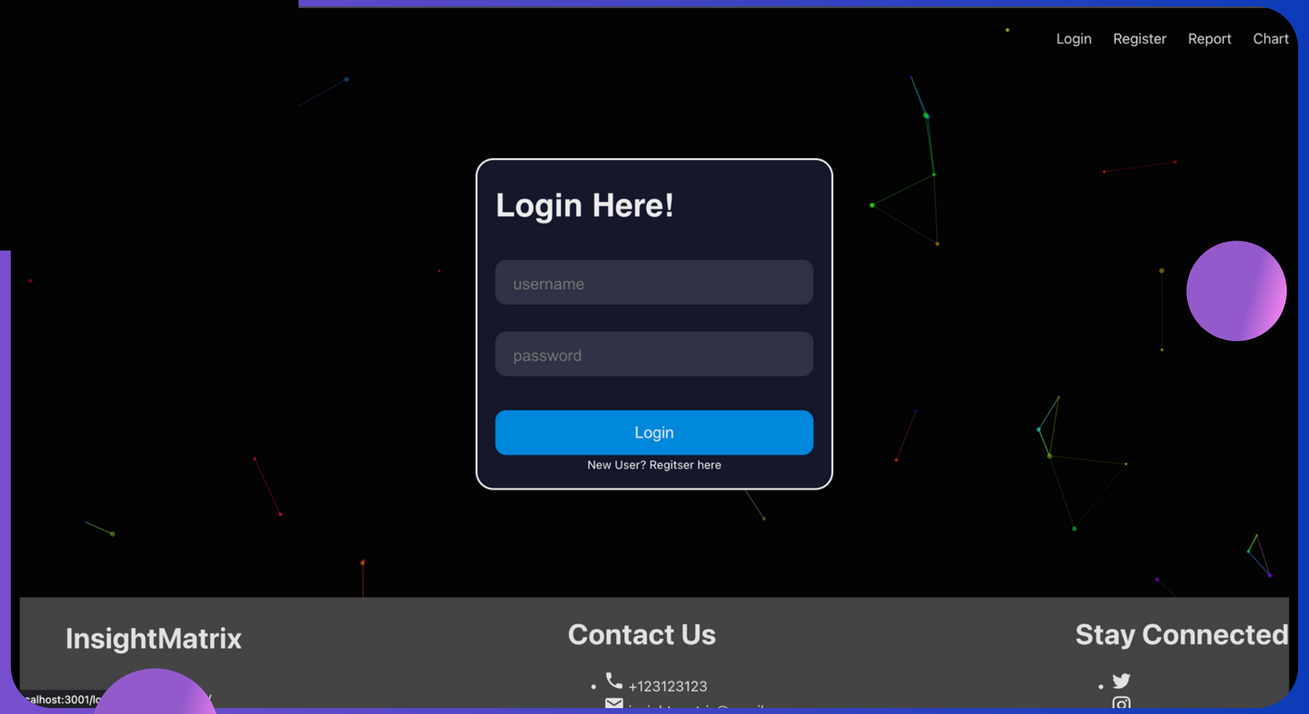
I. Number of results
II. Mean salary
III.Median salary
IV.25% percentile salary
V. 75% percentile salary

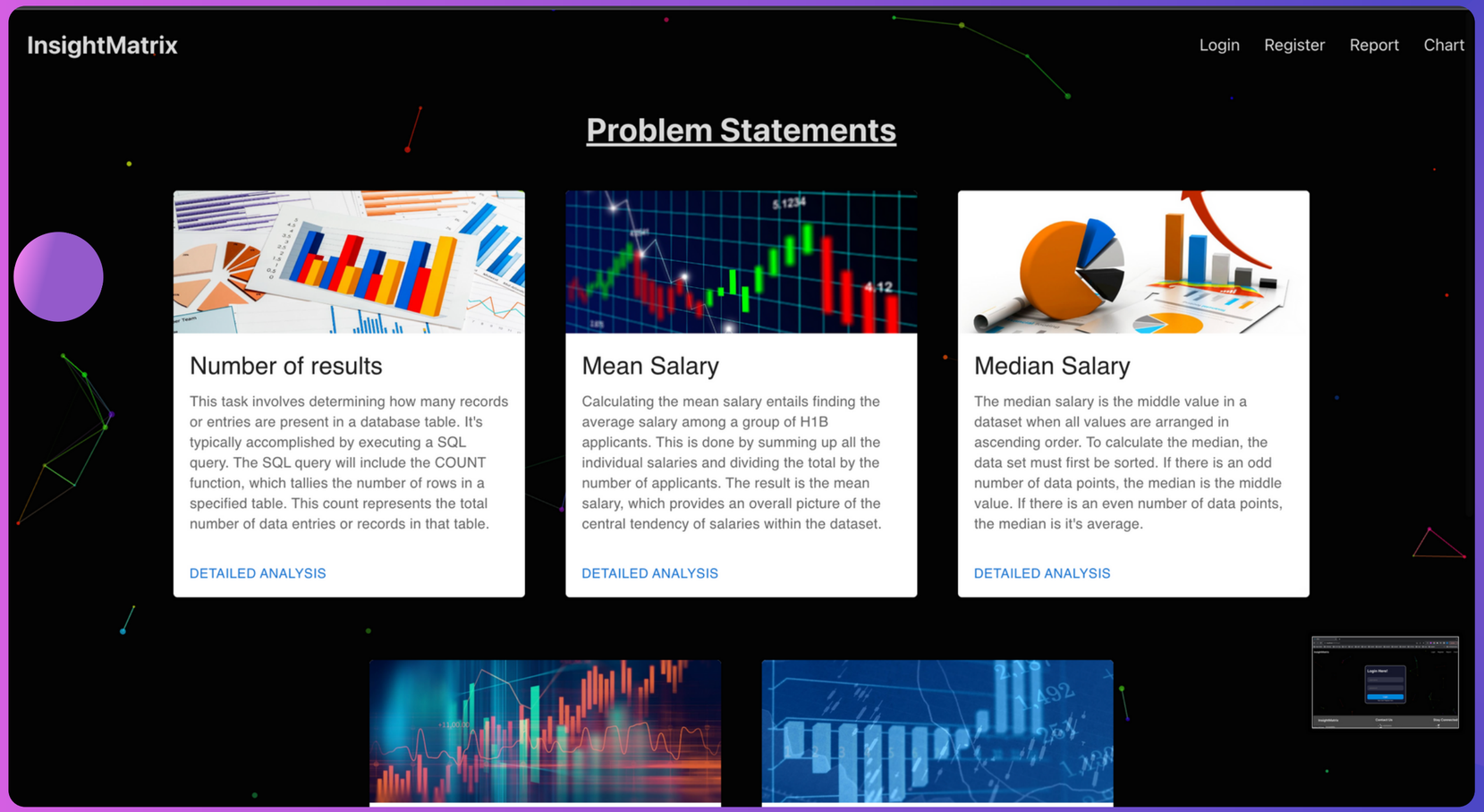
Data Analysis
Created API in backend
to handle SQL queries.

Performance Measurement

THE INSIGHMATRIX

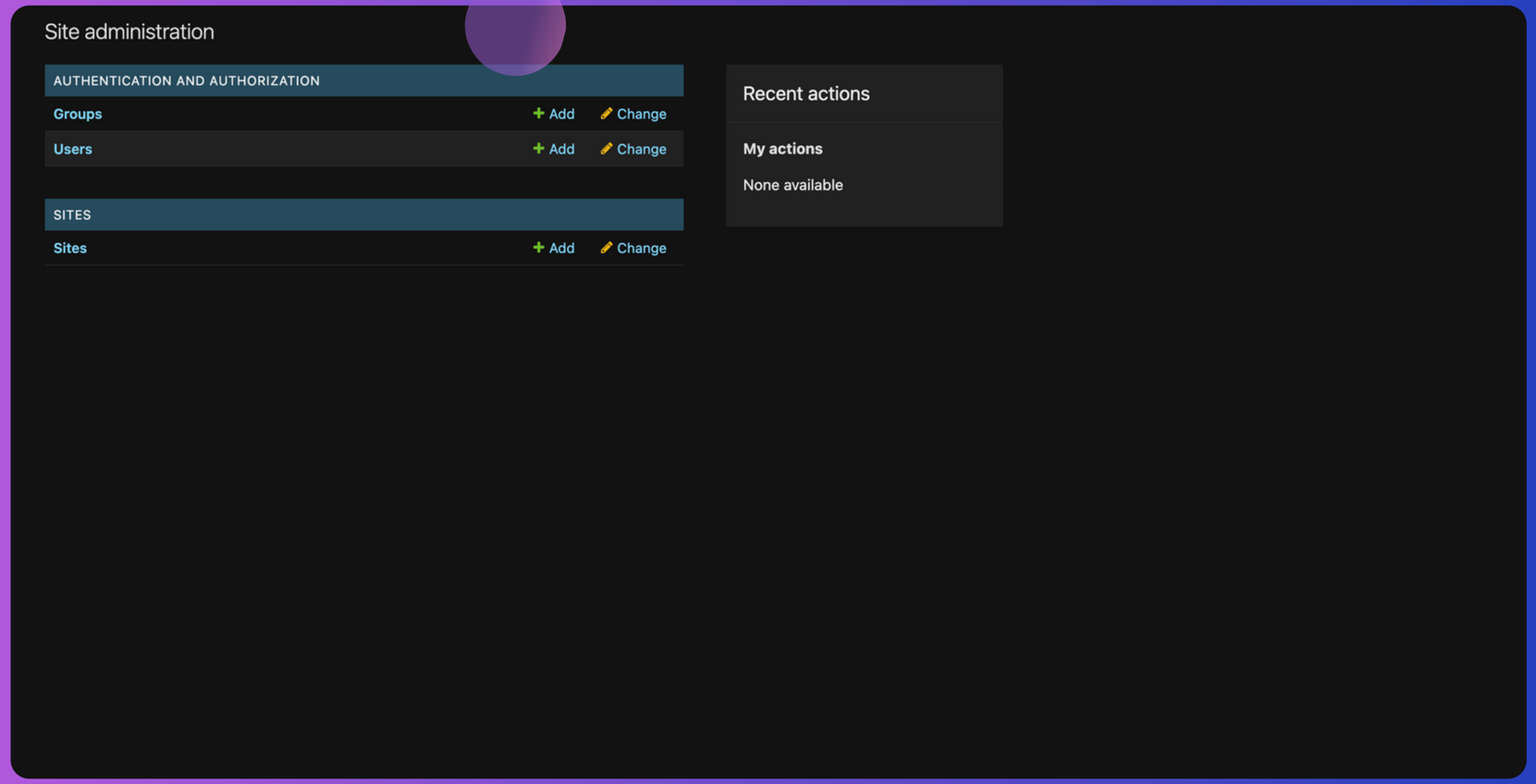
- In-Depth Data Analysis: Dive into comprehensive data analysis covering the year 2016.
- Valuable Insights: Gain valuable insights into the events and phenomena of 2016 through meticulous examination.





The key APIs from the H1B data are:

I. Number of results
II. Mean salary
III.Median salary
IV.25% percentile salary
V. 75% percentile salary



- **Site Administration**: *Managing and maintaining a website, including user and content management.*
- **Authentication**: *Verifying the identity of users for access to a system or website.*
- **Authorization**: *Determining what actions or data a user is allowed to access after authentication, based on roles and permissions.*

- *This project involves downloading H1B data for the years 2016-2019 from a specified link in CSV format.*
- *The acquired data is then ingested into a PostgreSQL database, where a Python script handles the import process.*
- *Subsequently, a Django-based API is developed to provide various functionalities, including counting the total number of records, calculating the mean and median salaries, and determining the 25th and 75th percentile salaries for H1B applicants.*

Our Team

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THANK YOU