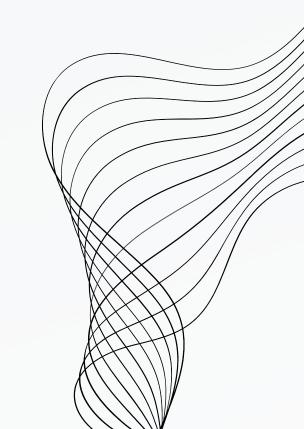
## STGI

# TEAM WEBSTERS

TEAM LEADER: HARSH GOYAL



## TEAM MEMBERS

HARSH GOYAL

TECH

02

DOLFY

TECH

03

PRIYANSHU

TECH

04

SUKHWINDER KAUR NON - TECH

05

HARSH RAJ

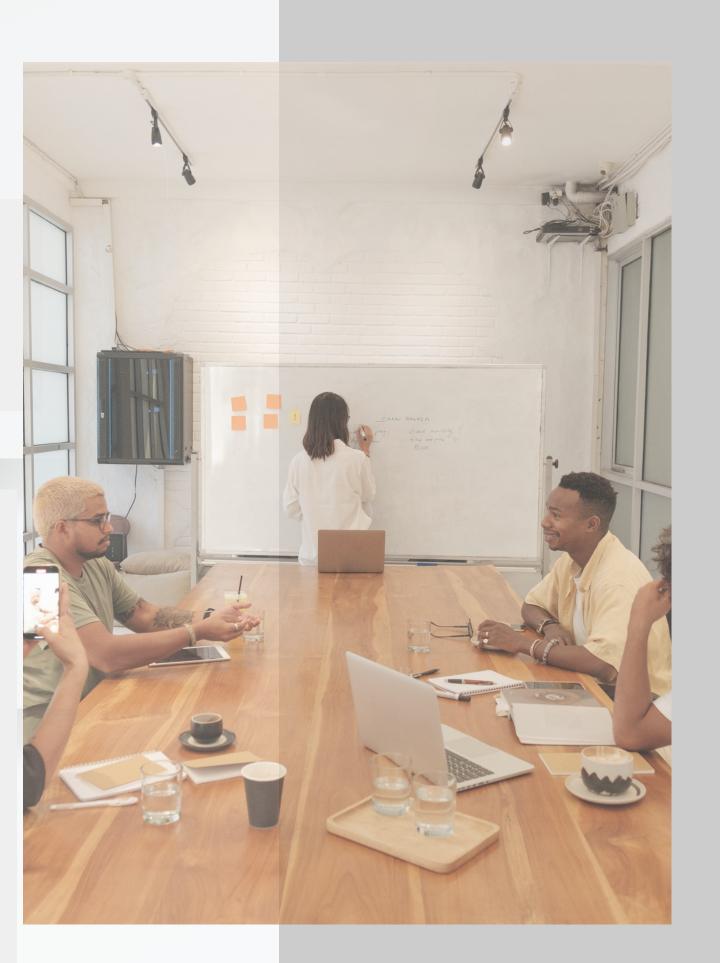
NON - TECH

### PROBLEM STATEMENT

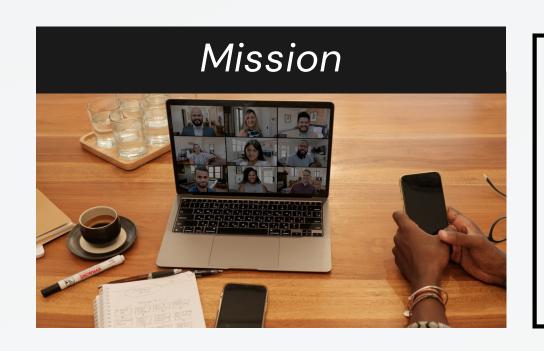


#### **KEY POINTS:**

- 1.Download H1B Data (2016 2019)
- 2. Convert Data to CSV file.
- 3.Ingest data into PostgreSQL
- 4. Create aa Django app-Based API
- 5.Data Analysis
- 6.Performance Measurement



## PROPOSED SOLUTION

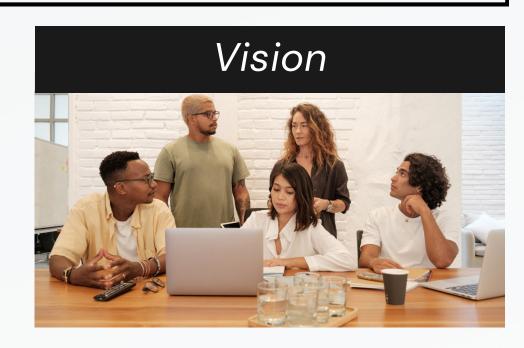


#### **Data Sources:**

Identify the sources of your data, which could include databases, external APIs, or file uploads.

#### Django Models:

Create Django models to represent your data. Define the fields and relationships necessary for analysis.



#### <u>Django REST framework:</u>

Use Django REST framework to build APIs for data retrieval and manipulation.

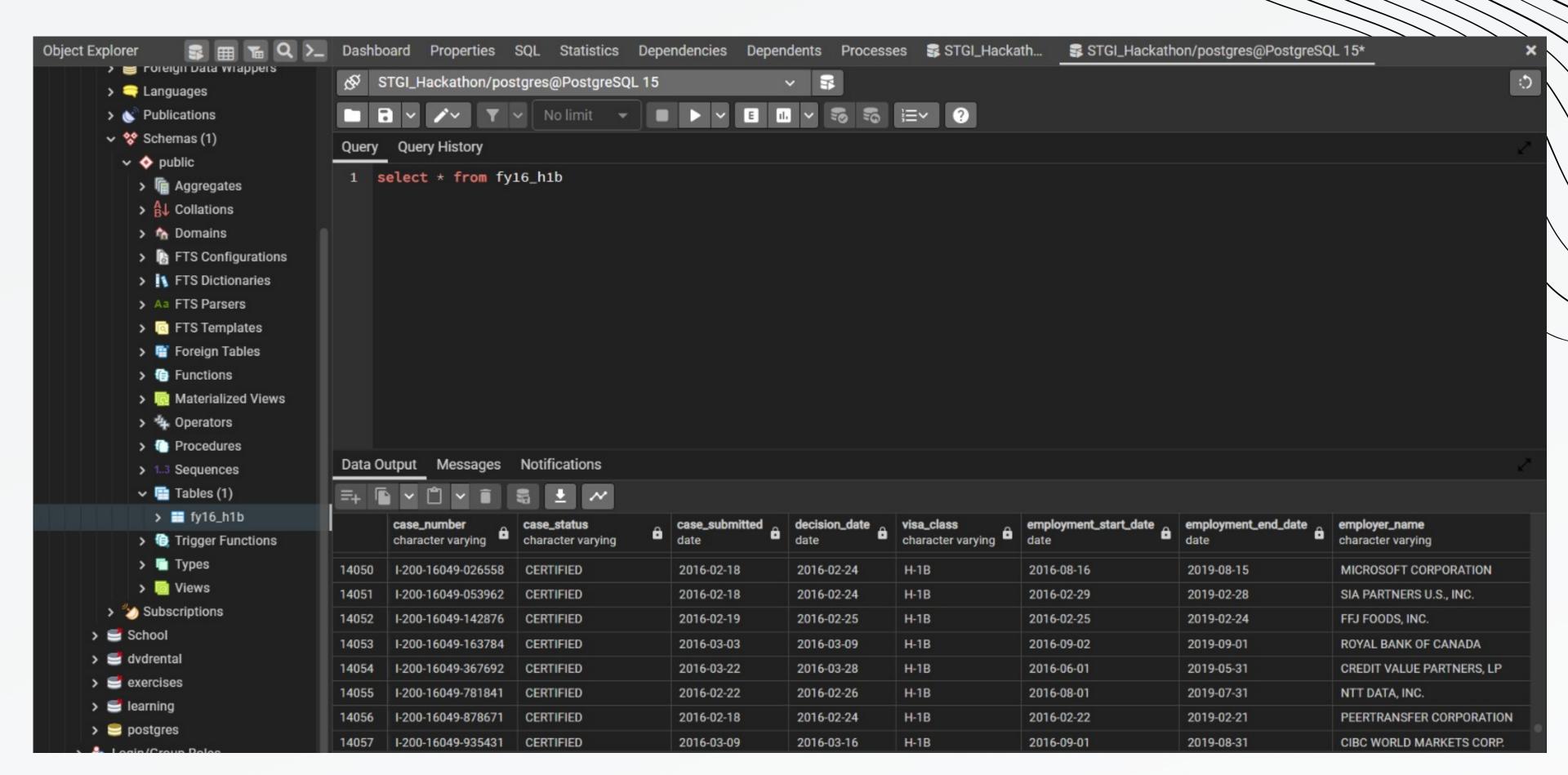
#### • API Endpoints:

Define endpoints for various data analysis operations, such as filtering, aggregation, and sorting.

#### Custom Analysis Functions:

Write custom Python functions within your Django app for data analysis.

### IMPORTING DATA TO POSTGRESQL



# DATA ANALYSIS USING DJANGO

Data Collection and Management:

Django can be used to build web applications that collect and store data. You can create forms and APIs to capture data from users or external sources and save it to a database for analysis.

Data Visualization:

Django can be used in combination with data visualization libraries like Matplotlib, Plotly, or Bokeh to display data in the form of charts and graphs. You can build web-based dashboards and reporting tools to present the results of data analysis.

#### API Development:

You can build RESTful APIs with Django, which is useful for serving data to other data analysis tools or clients, such as data science libraries and applications.

Framework for Data Analysis Applications:

You can build custom data analysis applications using Django as a backend framework. These applications can include features like data uploading, processing, visualization, and sharing, all within a unified platform.



## THANK YOU !!!

