# Placement Eligibility Streamlit Application

This project is a **Streamlit-based Placement Eligibilty application** that allows users to view SQL-based queries on student placement data. It uses a **SQLite database** with **Faker-generated data** for 500 students divided across 4 batches.

## Project Structure

├── app.py # Streamlit dashboard interface  
├── database.py # Contains SQL query functions  
├── generate\_data.py # Generates and populates the SQLite DB  
├── placement\_eligibility.db # Generated database  
├── README.md # Project documentation

## Setup Instructions

1. **Clone or Download** this repository.
2. **Install dependencies**:

pip install streamlit faker pandas

1. **Generate the database**:

python generate\_data.py

1. **Run the Streamlit App**:

streamlit run app.py

## SQL Insights Available

Choose from dropdown in the dashboard:

* Top 5 Students Ready for Placement
* Average Programming Performance per Batch
* Students With High Mock Interview Scores
* Students With At Least 2 Internships
* Students Placed in Infosys
* Students With Strong Soft Skills
* Students Ready But Not Yet Placed
* Strong Programmers (200+ Problems & 2+ Certifications)
* Students Cleared Multiple Interview Rounds
* Graduating But Not Yet Placed
* Students With 3+ Mini Projects
* Hyderabad Students With High Mock Score
* Top 5 Certified Students

## Features

* Uses **Faker** to auto-generate realistic student profiles
* **Object-Oriented SQL logic** in database.py
* Interactive **dropdown for SQL insights**
* Output in **tabular format** with appropriate headings

## Technologies

* Python
* SQLite3
* Faker
* Pandas
* Streamlit

## Author

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