PREM THAKKAR

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Profile

Aspiring Data Scientist with a strong foundation in Python, machine learning, and data visualization. Experienced in building predictive models, ensuring data quality, and delivering actionable insights through projects and internships. Skilled in Scikit-learn and MySQL to analyze datasets and drive data-driven decisions. Passionate about leveraging analytics and problem-solving to contribute to impactful initiatives.

Education

Indus University **May 2021: July 2025**
Bachelor of Technology and Engineering | Information Technology *Ahmedabad, Gujarat*
- **CGPA: 9.90/10.0**

Skills Summary

Programming Languages: Python, C++, C, SQL, JAVA, JAVASCRIPT.

Frameworks: Flask, TensorFlow, Py-Torch, Fast-API.

Database: MySQL, PostgreSQL, MongoDB, NoSQL

Machine Learning: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV, NLTK.

Development/Others: Git/GitHub, AWS, Docker, Big Data, VS Code, CN, Power BI, Tableau, DSA, OOPs, DBMS.

Work Experience

Neura-Monks **September 2024 – December 2024**
Intern *Ahmedabad, Gujarat*
- ***Developed predictive models** for **apartment price forecasting** across **50+ localities**, improving accuracy to **90%** and reducing errors by **15%**.*
- *Collaborated with an **8-member team** to build an **ETL pipeline**, integrating data from **5+ sources** and reducing **preprocessing time by 40%.***
- ***Applied time-series forecasting** and **geospatial analysis** to identify **housing trends**, leading to better **pricing strategies**.*
- ***Helped automate model deployment** using **CI/CD pipelines**, improving **workflow efficiency by 80%.***
- ***Created interactive dashboards** in **Power BI & Tableau**, accelerating **market analysis 20% faster** and enabling better **data driven decisions**.*

Projects

Flight Price Prediction | LINK **June 2024 – August 2024**
- ***Designed a machine learning model** for **flight price prediction** using **100,000+ records**, achieving **85% accuracy** and reducing errors by **10%.***
- ***Engineered 10+ features** (e.g., **day of the week**, **booking time**, **airline**, and **route**) to enhance model performance, leading to a **15% improvement.***
- ***Implemented Random Forest and Gradient Boosting** to capture **complex patterns** and improve prediction reliability.*
- ***Deployed the model as a Flask-based web application**, allowing users to enter flight details and receive **real-time price estimates.***

Tech Used: *Scikit-learn | Random Forest | Pandas | NumPy | Flask*

Recommendation System | LINK **September 2023 – December 2023**
- ***Constructed a movie recommendation system** using **collaborative and content-based filtering**, providing **personalized suggestions** based on user preferences.*
- ***Integrated sentiment analysis** with **NLP techniques**, achieving **80% accuracy** in classifying reviews as **positive, negative, or neutral**.*
- ***Utilized Cosine Similarity** for **content-based filtering** and **user-item matrices** for collaborative filtering, ensuring **diverse and accurate results.***
- ***Deployed the system using Flask**, allowing users to **search for movies, receive recommendations, and analyze review sentiments.***

Tech Used: NLP| Scikit-learn | Cosine Similarity | Pandas | Flask

Student Insight Dashboard | LINK **January 2022 – February 2022**
- ***Designed and developed a Power BI dashboard** to visualize **real-time sales performance metrics**, enabling **data-driven decision-making** and improving reporting efficiency.*
- ***Processed and cleaned 2,000+ records** using **advanced data transformation techniques** to ensure **accuracy and consistency** in **key performance indicators.***
- ***Created interactive visualizations and reports**, providing **actionable insights** into **institutional performance, student engagement, and academic trends** for Indus University.*

Tech Used: Power BI | DAX | KPI Metrics | EXCEL | MySQL

Certification & Achievements

- *Solved **250+ Leet-Code** problems to strengthen **problem-solving and coding skills.***
- ***2nd Position** in **Hack-to-burst** (Organized by Indus University).*
- ***Top 10** in Capture-the-Flag (Organized by Indus University).*
- ***Winner of Table Tennis Tournament** (1st place in a pool of **400 players**).*