SAMEERA TANVEER

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Entry-level Data Scientist with hands-on experience building ML-powered applications and interactive dashboards using Python, SQL, and Power BI. Strong foundation in data preprocessing, model deployment, and stakeholder-focused insights. Proven ability to lead projects and translate data into strategic recommendations.

EDUCATION

Bachelor of Technology in Artificial Intelligence & Data Science — **2021 – 2025**, **HYD, IN**

Shadan Women's College of Engineering and Technology (SWCET), Affiliated to JNTUH

***Current CGPA*:** 8.0 (Cumulative till 6th Semester)

Coursework: Statistics, Database Management,Data Analytics, Machine Learning, Deep Learning, Cloud Computing, Data Wrangling & Visualization

SKILLS

Languages	Python, SQL,
Frameworks	Pandas, NumPy, Scikit-Learn, Matplotlib, Flask
Analysis & Visualization Tools	Power BI, Excel, PowerPoint, MySQL, MS SQL, Tableau, Data collection (API, Web Scraping), Data Modelling, ETL, Dashboards, Statistics
Platforms	Visual Studio Code, Jupyter Notebook, GitHub
Soft Skills	Excellent Communicator, Leadership, Negotiation, Problem-Solving, Responsibility & Accountability, Critical Thinking, Strong attention to detail, Networking & Community Building

EXPERIENCE

Rubixie AI Solutions Company — **May 2024 – Nov 2024**, **Remote**

Data Science Consultant | *Internship Certificate*

- Led a team, coordinating tasks and representing the group in weekly meetings with Rubixie's team to present project progress and align on goals.

PROJECTS

Loan Default Prediction System - Flask + Power BI| *GitHub Repository*

- Developed an end-to-end ML system that predicts loan defaults with **88.6%** accuracy using a tuned **Random Forest Classifier**, leveraging engineered features like Loan-to-Income Ratio and a custom Risk Score.
- Developed a **Flask web application and API** to automate predictions and dynamically save inputs to a central file (predicted.csv) for real-time logging and integration.
- Created a dynamic **Power BI Dashboard** that visualizes loan approval trends, default patterns, and user prediction logs, enabling real-time insight generation for financial decision-makers.

Flight Delay Prediction System - Flask + PyTorch + MySQL| GitHub Repository

- Engineered a full-stack ML application using PyTorch to predict flight delays (binary + regression), achieving **84%** classification accuracy and ±7 minutes error on delay estimation.
- Designed a **Flask-based web app with MySQL integration** for user authentication, input handling, and real-time predictions, enabling multi-user interaction and persistent storage of prediction history.
- Applied **feature scaling, model serialization**, and RESTful design patterns to simulate real-time API requests and predictive workflows for aviation scheduling optimization.

Finance Bank Loan Analysis - Power BI + SQL| GitHub Repository

- Analysed **38.6K+** loan applications using **SQL** and visualized results through a 3-page interactive **Power BI dashboard**, tracking key KPIs like funded amount ($435M), default rate, and regional lending trends.
- Provided insights on loan term, DTI, and demographic risk factors, recommending strategies to reduce defaults.

Telecom Customer Churn Prediction - Power BI + ML| GitHub Repository

- Developed a churn prediction model for a telecom provider using customer behaviour data, identifying **43% churn rate** in month-to-month contracts and flagging **high-risk segments** based on tenure, payment type, and contract length.
- Assigned **churn probability scores** to each customer and visualized insights using a 4-page interactive **Power BI dashboard**, enabling business teams to drive **targeted retention strategies**.
- Recommended interventions such as contract upgrades, pricing flexibility, and digital payment options, supported by patterns like higher churn in Electronic Check users and low-tenure, high-charge segments.

LEADERSHIP & AWARDS

1. Elected Class Representative for 3 consecutive years, leading academic discussions and organizing tech events.
2. Recognized as 'Best Team Player' in internship for exceptional collaboration & problem-solving.