Riya Patel

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Github: https://github.com/riya992

Education

Vellore Institute of Technology, Bhopal **CGPA: 9.00/10** Sep'22 – May'26

- B.Tech in Computer Science & Engineering

Advait Vidyaniketan **12th: 82%** **10th: 93%** Jun'18 – Mar'22

- Secondary & Higher Secondary School

Skills

Languages: Java, Python, Go
Data Science & Visualization: Pandas, NumPy, Matplotlib, Seaborn, PowerBI, Tableu
Web Development: React.js, Next.js, HTML, CSS, JavaScript, Tailwind CSS, Node.js, Express.js, Flask, MongoDB, MySQL, REST API
Machine Learning & Generative AI: Supervised & Unsupervised Learning, Deep Learning, Generative Models, Prompt Engineering, TensorFlow, Scikit-learn
Tools & Platforms: GitHub, Postman, AWS, Salesforce

Projects

NetflixStreamLens – Exploratory Data Analysis Project **Github**

- Performed end-to-end EDA on Netflix dataset using Python (Pandas, Seaborn, Plotly) to uncover trends in genres, countries, and content types.
- Analyzed over 8,800+ titles to identify viewing patterns, regional content gaps, and release trends; presented insights using interactive visualizations.
- Cleaned and transformed real-world data, visualized global streaming trends, and extracted actionable insights for business storytelling.

E-commerce Customer Spending Prediction – Regression Project **Github**

- Built and evaluated a Linear Regression model in Python to predict customer yearly spending based on session behavior, achieving an R^2 score of 0.98.
- Conducted comprehensive EDA using Pandas, Matplotlib, and Seaborn to identify correlations; found *Length of Membership* as the most influential predictor of spending.
- Implemented feature selection, data preprocessing, and model evaluation workflow; visualized predictions vs. actuals with scatter plots for interpretability.

Home Loan Default Prediction – Deep Learning Project **Github**

- Developed a deep learning model using TensorFlow and Keras to predict loan defaults from historical applicant data in a binary classification setting.
- Addressed class imbalance with SMOTE and evaluated model performance using AUC-ROC and Sensitivity, achieving an AUC of 0.92.
- Performed data preprocessing, including handling missing values, label encoding, feature scaling, and EDA.
- Implemented training optimizations using EarlyStopping and ReduceLROnPlateau callbacks to prevent overfitting and enhance model generalization.

Certifications

- **Professional Certificate Program in Generative AI and Machine Learning** – IIT Guwahati
- **Data Science** - Simplilearn
- **Full Stack Web Development** – Apna College

ECA Achievements

- Secured 1st prize in the "Read the Preamble" Quiz conducted by IIM Sirmaur.
- Selected among the top 20 out of 300+ participants for the North East Social Summit challenge= The Policymaker, IIT Guwahati
- Black Belt in Shorin Ryu Seibukan Karate