GAURI CHAUDHARI

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EDUCATION

Indiana University - Bloomington, IN, United States **Aug 2022-May 2024**
Master in Data Science

University of Pune, India **Jul 2015-May 2019**
Bachelor of Computer Science

SKILLS & CERTIFICATIONS

- Programming Languages: Python, R(statistics)
- Data Science: SQL, Machine Learning, Natural Language Processing (nlp), Neural Networks, Microsoft Excel
- Libraries and Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scipy, Scikit-Learn, NLTK, Tensorflow, Keras, dplyr
- Data Visualization Tools: Tableau, PowerBI
- Cloud: Amazon Web Services (AWS)
- Other: Git, Docker, Linux, Cloud Foundry, Jupyter
- **Google Data Analytics Professional Certificate** **Sept 2023**
- **Associate Data Analyst Certificate | DataCamp** **Feb 2024**

WORK EXPERIENCE

Tata Consultancy Services, Mumbai, India
Technical Data Analyst **Jul 2019-Jun 2022**

- Designed and modernized **intuitive dashboards and visualizations** in **Splunk and PowerBI** for GE Digital, providing stakeholders with real-time insights into data trends, anomalies, and key performance indicators, facilitating data-driven decision making.
- Exhibited robust analytical and problem-solving prowess by **analyzing and identifying anomalies and patterns** by conducting thorough root cause analysis (RCA) on **AWS**/**Predix** using SQL and **Python** achieving a 75% improvement in system reliability and enhancing business performance.
- Performed **data modeling** to **predict system failures** and address potential issues, leading to a **15%** reduction in downtime.
- Collaborated with various teams and stakeholders to gather, synthesize, and present data for analysis, demonstrating strong teamwork and self-driven approach for driving a business

Armstrong Machine Builders Pvt Limited, Nashik, India
Data Scientist Intern **Sep 2018-Mar 2019**

Designed and implemented a real-time analytical predictive model utilizing **back-propagation algorithm** to identify the type, timing, and root cause of conveyor belt faults with **90% accuracy**, resulting in a **98%** uptime for Propus conveyors and optimizing their operational efficiency.

PROJECTS

Optimizing fraud detection in credit card transactions

- Implemented and optimized a Credit Card Fraud Detection system leveraging **Random Forest** and **Decision Trees.**
- Developed a sophisticated **Deep Neural Network** model, enhanced with Synthetic Minority Over-sampling Technique (**SMOTE**), to identify fraudulent activities within a dataset of over 284,000 credit card transactions.
- Leveraged Python and machine learning libraries (pandas, numpy, keras) for data preprocessing, feature engineering, and model evaluation, leading to a 97.6% precision rate in **fraud detection**.

Quantitative Analysis and Prediction of FAANG Stock Performance

- Conducted comprehensive **risk analysis** of FAANG stocks, utilizing **Python** and **statistical methods**, leading to the identification of a strong correlation between Microsoft and Amazon stocks, enhancing portfolio diversification strategies.
- Implemented **Monte Carlo simulations** for predicting future stock values, focusing on Google, which indicated a stable price forecast with a minimal average difference of **$0.11**, aiding in long-term investment planning.
- **Visualized data trends** and volatility through advanced **matplotlib** and **seaborn** plots, successfully identifying Netflix's consistent stock performance over a **50-day moving average**, informing data-driven investment decisions.

Boosting the sales margin of an e-commerce product using data-driven Price Optimization

- Orchestrated analysis of 100k+ sales records, employing **feature selection, scaling, and trend identification.** Crafted a statistical linear model using linear/Lasso/Ridge regression for **product analytics** that enhanced sales margin.
- Conducted exploratory data analysis to uncover insights from data, such as identifying top-performing categories, evaluating product sales, and analyzing price changes.
- Engineered a **45%** demand upswing through **regression analysis,** paving the way for **strategic revenue expansion**.

EXTRA-CURRICULAR & MENTORSHIP ACTIVITIES & AWARDS

- **3rd Position** in O'Neill School of Public and Environmental Affairs Data Visualization Contest (March 2024)
- Grace Hopper Conference 2023
- Awarded title of **TCS GE ISU - Young Achiever** For Q1 FY21 and Q1 FY22 by TCS (2021-2022)
- **Grand Finalist** at National Level **Smart India Hackathon** driven by the Prime Minister of India. (2019)