# GAURI CHAUDHARI

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## EDUCATION

**Indiana University - Bloomington, 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
- Data Science: SQL (PostgreSQL, MySQL), Statistics, Machine Learning, Natural Language Processing, Neural Networks
- Libraries and Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scipy, Scikit-Learn, NLTK, Tensorflow, Keras, dplyr, ggplot2
- Data Visualization Tools: Tableau
- Cloud Platforms: Amazon Web Services (AWS)
- Other: Git, Docker, Linux, Cloud Foundry, Jupyter
- **Google Data Analytics Professional Certificate**                                   **Sept 2023**

## WORK EXPERIENCE

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

**Data Visualization and Analysis:**
- Designed and modernized intuitive dashboards and visualizations in Splunk, providing stakeholders with real-time insights into data trends, anomalies, and key performance indicators, facilitating data-driven decision making.
- Proficient in using Microsoft Excel ,SQL for data analysis, including data cleaning, transformation, and visualization

**Problem Solving and Technical Analysis:**
- Exhibited robust analytical and problem-solving prowess by analyzing and resolving intricate technical issues by conducting thorough root cause analysis (RCA) on AWS/PaaS using SQL and Python.
- Monitored system performance, identified anomalies and patterns, and achieved a 75% improvement in system reliability and efficiency.

**Predictive Analytics and Modeling:**
- Performed advanced statistical analysis and data modeling to predict system failures and proactively address potential issues, leading to a 15% reduction in downtime.

**Data Automation and Efficiency:**
- Spearheaded automation of data collection processes using Python and SQL, reducing manual data entry by 90%

**Data Collaboration and Presentation:**
- Collaborated with various teams and stakeholders to gather, synthesize, and present data for analysis, demonstrating strong teamwork and communication skills

**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

**Deep Learning Approach for Multiclass Sentiment Analysis of Customer Reviews**
- Developed a **deep learning** approach for multiclass **sentiment analysis** of customer reviews, achieving an accuracy rate of **83.11%** with the **Bi-LSTM model** and **84.95%** accuracy with the **Bi-RNN** model for sentiment classification without emojis.
- Conducted thorough research on **integrating textual and visual information** effectively, employing state-of-the-art preprocessing and representation techniques for multimodal data.
- Addressed **label imbalance** and **granularity issues** in multiclass sentiment analysis by implementing advanced techniques such as oversampling and undersampling, resulting in a well-balanced distribution of sentiment classes with a total of **42,867** carefully sampled and annotated samples.
- Analyzed and interpreted and compared the experimental results with **BERT**, conducting a comprehensive model comparison to identify the most effective approach for the research questions

**End-to-End Uber Data Intelligence: Transformative Analytics and Dashboarding**
- Employed **Python** and **MAGE** for **ETL** scripting, crafting a lucid data model on **Lucidchart** for Uber's raw dataset, enhancing data comprehension with a robust pipeline for data flow.
- Led end-to-end analytics journey by formulating **BigQuery** queries, and translating insights into **Looker Studio.** Enabled stakeholders with real-time, informed decision-making through an interactive dashboard.

**Boosting the sales margin of a product using data-driven Price Optimization**
- Orchestrated analysis of 100k+ sales records, employing **feature selection, scaling, and trend identification.** Crafted a potent linear model for **product analytics** that enhanced sales margin by **78%** through optimal pricing strategies.
- Engineered a **75%** revenue surge by innovating a **demand curve** using **PCA** and diverse regression algorithms.
- Anticipated a **45%** demand upswing through **regression analysis,** paving the way for **strategic revenue expansion.**