SAURABH SAMPATKUMAR LOYA

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SKILLS AND CERTIFICATIONS

Languages: Python, Java, R, HTML, CSS, JavaScript, SQL

Framework & Libraries: Flask, Django, Pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch, Tensorflow, Spacy, Apache Spark, Apache Airflow, Apache Kafka, Selenium, LangChain

Visualization Tools & Development: Tableau, Power BI, D3.js, Git, Jira, Docker, Microsoft Office, Microsoft Excel

Databases: MySQL, PostgreSQL, MongoDB, ChormaDB, Pinecone

Certification: AWS Certified Cloud Practitioner, Azure Fundamentals

EDUCATION

The University of Utah   *Aug 2023 – May 2025*

Master of Science in Computer Science | **Graduate Teaching Assistant** | **GPA: 3.5/4**   Salt Lake City, Utah, USA

Coursework: Visualization for Data Science, Natural Language Processing (NLP), Deep Learning, Machine Learning

MIT World Peace University   *Aug 2017 – May 2021*

Bachelors of Technology in Computer Science and Engineering | **Merit List Scholarship** | **GPA: 3.8/4**   Pune, India\

WORK EXPERIENCE

BMW Financial Services NA   *Jan 2025 – May 2025*

Data Scientist Intern   Salt Lake City, Utah, USA

- Developing **loan optimization models** using machine learning to improve lending strategies and reduce risk for daily loan originations of $100M–$300M.
- Utilizing **SQL and ETL processes** to extract, transform, and load data for comprehensive analysis and reporting.
- Building **Tableau** dashboards to track loan performance, supporting data-driven decisions for a $9B+ asset portfolio.

Volkswagen Group Technology Solution   *Aug 2021 - July 2023*

Software Engineer (Data Science Team)   Pune, India

- Engineered a **Software as a Service (SaaS)** global survey platform for Volkswagen Group, enabling comprehensive participant engagement monitoring and analysis using **Tableau.**
- Implemented and optimized an **OCR pipeline** using **Azure Cognitive Services** for invoice scanning, achieving an **8x speedup** and **15% accuracy** improvement in extracting invoice details.
- Elevated the intelligence of the **chatbot** by using **NLP technologies** and integrating **LLM**, leading to a **30% improvement** in its knowledge base through comprehensive analysis of user interactions and diverse data sources.
- Innovated a **task automation solution** with **Python, Selenium**, and **Apache Kafka** achieving a **60% reduction** in task completion time, eliminating the need for RPA, leading to significant operational cost savings.
- Resolved **50+ production issues**, including data quality and performance bottlenecks, and led the refactoring of a **2 complex projects**, enhancing code quality and maintainability.
- Supported the Volkswagen **AI/ML Center of Excellence (COE)** team by collaborating on 3 proofs of concepts (POC).

PROJECTS

- **CITI Bike Rental Analytics and Forecasting**: Conducted EDA on 1M+ ride records and developed a predictive model with **Apache Spark** and **Facebook Prophet**, optimizing CITI Bike demand forecasts and inventory.
- **Pokemon Interactive Data Visualization:** Developed an award-winning interactive tool using **D3.js** to explore Pokémon stats, type matchups, and battle outcomes, securing the winner position in a class of 120 students.
- **LLM based Medicine Recommendation System:** Crafted a recommendation system using **LLaMA-2, LangChain,** and **Chroma DB** with **Retrieval-Augmented Generation (RAG)**, achieving **90% accuracy** in providing medication.
- **AutoBotTrain:** Expanded an automated system leveraging the **T5 model** to streamline chatbot training, **reducing manual effort by 70%** and **accelerating the training timeline by 30%.**

HONORS AND RECOGNITION

- **Innovation Award** in recognition of creative thinking in AutoBot Train Project.
- **Achievers Award** for successful project deliverable with Customer Satisfaction Survey rated above 9.