

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: Power BI, Tableau, 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

Master of Science in Computer Science | **Graduate Teaching Assistant** | **GPA: 3.5/4**

Aug 2023 – May 2025

Salt Lake City, Utah, USA

MIT World Peace University

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

Aug 2017 – May 2021

Pune, India

WORK EXPERIENCE

BMW Financial Services NA

Data Scientist Intern

Jan 2025 – May 2025

Salt Lake City, Utah, USA

- Developed and deployed predictive and prescriptive machine learning models to solve complex business challenges, driving revenue growth, cost reduction, and risk optimization.
- Performed data discovery on structured and unstructured data to uncover insights and opportunities.
- Assisted in creating and maintaining financial models while providing insights into emerging AI trends, including machine learning and large language models, to address regulatory requirements and optimize business performance.

Volkswagen Group Technology Solution

Software Engineer

Aug 2021 - July 2023

Pune, India

- Engineered a **Software as a Service (SaaS)** global survey platform for Volkswagen Group, enabling comprehensive participant engagement monitoring and analysis using **Tableau**.
- Developed **interactive dashboards and reports** to visualize estimation data, empowering data-driven decision-making processes and streamlining project management workflows.
- 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 (AISHA)** 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 and contributing to **cost savings of \$3 million**.

PROJECTS

- **CITI Bike Rental Analytics and Forecasting:** Conducted exploratory data analysis (**EDA**) and directed the development of a predictive model using **Apache Spark** and **Facebook Prophet** for CITI Bike rental analytics, facilitating precise daily demand forecasts and enhancing inventory efficiency.
- **Pokémon 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 medicine recommendation system using **LLaMA-2**, **LangChain**, and **Chroma DB** with **Retrieval-Augmented Generation (RAG)**, achieving **90% accuracy** in providing medication recommendations and side effect insights.
- **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