

# SAURABH SAMPATKUMAR LOYA

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## SKILLS AND CERTIFICATIONS

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**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

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**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

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**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.
- Utilizing **SQL and ETL processes** to extract, transform, and load data for comprehensive analysis and reporting.
- Building interactive **Tableau** dashboards to visualize loan performance and provide actionable insights for stakeholders.

**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 (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**.
- Supported the Volkswagen **AI/ML Center of Excellence (COE)** team by collaborating on many proofs of concepts (POC).

## PROJECTS

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- **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

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