**SARITA RAVINDRA JOSHI**

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**SUMMARY**

Software Engineer with 3+ years of experience developing scalable tools and AI-integrated platforms across cloud and embedded environments. Currently pursuing a Master’s in Computer Science in the U.S., seeking an internship to contribute to high-impact engineering teams and gain hands-on experience in a global tech setting.

**EDUCATION**

## Master of Science (MS), Computer Science Jan 2024- Present

*California State University, Fullerton*

## Bachelor of Engineering (B.E.), Computer Engineering Aug 2017 - May 2021

*Savitribai Phule Pune University* CGPA: 9.45/10.0

# PROFESSIONAL EXPERIENCE

# Engineering Intern - AI & Embedded Systems Jan 2024 – Present

# *Mercedes-Benz R&D North America* *Long Beach, CA, USA*

* Developed an internal speech dialog testing tool with a custom Python GUI to support scalable, automated validation of voice assistant systems in cloud-connected embedded environments.
* Designed multi-process Python workflows for audio processing, log parsing, ECU communication, and speech intent recognition to streamline real-time system analysis in embedded environments.
* Collaborated with global teams in an agile environment to deploy the tool across platforms and enhance QA workflows.

# Software Development EngineerJun 2021 - Dec 2023

# *Bajaj Finserv Health Ltd Pune, India*

* Led a team in automating customer service processes, reducing query processing time and volume through advanced intent classification using **Python** and **NLP**, and query auto-resolution techniques, resulting in a 30% decrease in manual effort and 40% cost reduction.
* Developed a conversational chatbot leveraging **Generative AI**, including **Large Language Models (LLMs)** and **LangChain** framework, to boost user engagement and decrease drop-off rates by 15%.
* Implemented a high-performance Search and Recommendations Engine and **RESTful API**s using **Node.js**, **ElasticSearch**, and **NLP**, achieving a 70% Click-Through Rate (CTR) and reducing zero search results to 0.5%.
* Engineered a robust event-driven workflow framework using **Python**, **Spark** to seamlessly integrate over 22 platforms.

**Data Science Intern****Sep 2020 – Jan 2023**

# *Bajaj Finserv Health Ltd Pune, India*

* Crafted and implemented **Machine Learning** models to identify high-propensity targets from a prospect dataset of 2M+ data points, doubling the conversion rate for provider onboarding.
* Implemented **CI/CD ELT** pipelines for leads and campaign analytics using **Python, Machine learning** and **MySQL.**
* Utilized **PowerBI** to create and enhance governance dashboards, integrating data from **data lakes** and collaborated with cross-functional teams to deliver real-time analytics.

# SKILLS AND CERTIFICATIONS

Programming: Python, SQL, JavaScript, Java

Database: MYSQL, MongoDB, PostGreSQL, ElasticSearch, Cassandra, Snowflake

Cloud services: Azure, AWS, GCP, Salesforce, NodeJS, ELK stack, FastAPI, ReactJS

Tools: Git, VS code, Microsoft Excel, PowerBI, Tableau, Postman, Azure Devops, Docker, Kubernetes

Certifications: DP-900 (Microsoft 2021), Generative AI Essentials (LinkedIn 2024)

# PROJECTS

* **Real-time Fraud Detection with Spark** processing, Kafka streaming, and live streamlit dashboard**. Jan 2024 - May 2024**
* **Hindi Grammar Correction** using Bidirectional Encoder-Decoder model and React-based UI. **Aug 2020 - May 2021**

# AWARDS AND LEADERSHIP

* **Winner – SoCal Alteryx Datathon (2024), National Health Authority Hackathon (2022), Smart India Hackathon (2020)**
* **Secretary – ACM-W Student Chapter, PICT**