SAURABH LOYA

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SKILLS AND CERTIFICATIONS

Languages: Python, Java, C/C++/C#, HTML, CSS, JavaScript, TypeScript, SQL, NoSQL, R

Frameworks & Libraries: Spring, Maven/Gradle, Angular, React, Flask, Power BI, Tableau, Numpy, Pandas, Spacy, PyTorch, Tensorflow, Apache Airflow, Apache Spark, Microsoft Office, Microsoft Excel, Kubernetes, Docker

Tools & IDEs: Git, Visual Studio, Eclipse, Postman, JMeter, Jupyter Notebook

Operating System and Platforms: Windows, Linux, MacOS, CentOS, AWS, Azure, GCP, Jira, Trello, Confluence

Databases: MySQL, MongoDB, SQLite, Microsoft SQL Server, PostgreSQL

Certification: AWS Certified Cloud Practitioner, Azure Fundamentals, Salesforce Developer Bootcamp

EDUCATION

The University of Utah   **Aug 2023 – May 2025**
Master of Science in Computer Science | **GPA: 3.9/4**   Salt Lake City, Utah, USA
Coursework: Advanced Algorithm, Computer Architecture, Deep Learning, Software and System Security, Manage Data for ML

MIT World Peace University   **Aug 2017 – May 2021**
Bachelors of Technology in Computer Science and Engineering | **GPA: 3.8/4**   Pune, India
Coursework: Data Structure and Algorithms, Operating Systems, Computer Networks, Software Modelling and Design, Database Management System, Data Warehouse and Data Mining, Big Data Analytics, Machine Learning, Artificial Intelligence, Business Intelligence, Cloud Computing, UIUX, Finance and Costing

WORK EXPERIENCE

Volkswagen Group Technology Solution   **Aug 2021 - July 2023**
Software Engineer   Pune, India

- Engineered a global survey tool for Volkswagen Group as a "**Software as a Service**" solution using **Java, Angular, SQL and REST APIs** to facilitate seamless survey administration and widespread adoption across entities.
- Developed Query Management System with integrated workflows, leading to a **40% improvement** in tracking and resolution of HR inquiries.
- Implemented and optimized an **OCR** based invoice scanning model leveraging **Azure Cognitive services** to extract key information like invoice number and vendor details, resulting in **8x time speedup** and a **15% improvement in accuracy.**
- Elevated the intelligence of the chatbot (AISHA) by using advanced 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**.
- Resolved **35+ production issues**, including data quality and performance bottlenecks, and led the refactoring of a 12 complex projects, enhancing code quality and maintainability.

ForceArk Consulting   **June 2021 – Aug 2021**
Salesforce Developer Intern   Pune, India

- Developed **Salesforce Estimator** SaaS application to streamline IT and business team estimations, enhancing efficiency.
- Collaborated with cross-functional teams to gather requirements and translate them into technical solutions.
- Implemented customer-specific solutions using **Lightning Web Components, Apex, and Visualforce**, along with managing user configurations, object customization, and **creating reports/dashboards** for actionable insights.

PROJECTS

- **Smart Contract Vulnerability Detection**: Directed the creation of a smart contract vulnerability detection system, bolstering blockchain security through comprehensive data collection, feature engineering, and precise model training.
- **LLM based Recommendation System:** Crafted an advanced medicine recommendation system, leveraging patient symptoms to propose medications, alternatives, and insights into potential side effects, attaining a **90% accuracy.**
- **AutoBotTrain:** Expanded an automated system to streamline chatbot training by generating diverse utterances and responses, enhancing user interactions resulting in **70% reduction in manual effort and 30% faster training timeline**.
- **IOT based Smart Traffic Management System**: Designed and implemented Smart Traffic Management System using Arduino, RFID, and LED signals to expedite emergency vehicle response and enhance overall road safety.

HONORS AND RECOGNITION

- **Innovation Award** in recognition of exhibiting Out of the Box thinking and creativity in AutoBot Train Project
- **Achievers Award** for successful project deliverable with Customer Satisfaction Survey rated above 9
- **Certificate of Excellence Award** for securing in top 10 in National Engineering Olympiad 2.0
- **Graduate Scholarship** @ University of Utah, **Merit List Scholarship** @ MIT World Peace University