

TECHNICAL SKILLS

Languages: Python, SQL, PostgreSQL, C#, JavaScript, NodeJS, Shell Scripting, GraphQL, Android (Java, Kotlin), Linux

Libraries & Frameworks: NumPy, Pandas, NLTK, Scikit-learn, PyTorch, TensorFlow, Spacy, Jupyter Notebook, Matplotlib, LangChain, Fuzzy Matching, .NET, ReactJS, React Native, Docker, Redis

Cloud Platforms & DevOps: AWS (Certified Machine Learning Specialist), Microsoft Azure, AWS Sagemaker, EC2, S3, Lambda, API Gateway, GIT, Docker, CI/CD

Tools & Technologies: PyCharm, VS Code, Jira, Tableau, Excel

Machine Learning Concepts: Generative AI, Neural Networks, RAG, NLP, XGBoost, Random Forest, KNN, Evaluation Metrics

EXPERIENCE

Machine Learning Engineer | SOTI Inc., Ontario, Canada

October 2023 - January 2025

- Implemented Retrieval Augmented Generation system in Python for classifying GraphQL schema objects with **85%** accuracy. It efficiently identified pertinent data for fine-tuning Large Language Models while optimizing token usage.
- Addressed the challenge of complex SQL query generation by developing a Speech-to-Text system using Generative AI, achieving 90% accuracy with a 4-second response time. Successfully deployed using C#, enabling conversational interactions and insightful visualizations.
- Optimized search efficiency for SOTI Wiki by implementing vectorized chunk-based embeddings with LangChain, Redis, and GPT models, enhancing accuracy to 90% and reducing search time from 10 seconds to 0.2 seconds.
- Developed an AI-driven Applicant Tracking System using NER and LLMs for automated resume ranking, interview question generation, and personalized candidate messaging, significantly enhancing HR efficiency and reducing screening time.
- Applied feature engineering and implemented predictive models using Logistic Regression and XGBoost to identify potential customer churn, helping improve retention strategies with data-driven insights.

Research & Development Intern (Data Science) | SOTI Inc., Ontario, Canada

September 2022 - September 2023

- Identified unsafe driving patterns by building an ML-based driver behavior analysis system using motion sensor data, leading to improved safety standards and proactive risk management.
- Designed and deployed a Kotlin application to collect motion sensor data, detecting driving anomalies like turns, braking, and acceleration with intensity.
- Built and deployed a cloud-based driving pattern monitoring service on Azure, ensuring data security and efficient processing via API Gateway.
- Created an AI-driven Resume Scoring SaaS to automate job description creation, resume sorting, and interview question generation, boosting hiring efficiency.

Mobile Engineer & Full Stack Developer | PlanetX Pvt Ltd, Gujarat, India

May 2018 - August 2021

- Developed and deployed mobile apps using **React Native**, **Kotlin**, and **Flutter**, ensuring compliance with Google Play Store/App Store standards.
- Built full-stack web applications with **ReactJS** and **Node.js**, managing **MongoDB** databases and deploying solutions on cloud platforms like **AWS**, **Azure**.
- Worked with AWS services such as **Lambda**, **API Gateway**, **S3**, and **IAM** to optimize cloud infrastructure and deployment pipelines.
- Mentored junior developers, improving team productivity and skill growth.
- Implemented CI/CD pipelines to streamline deployments and enhance app performance.

EDUCATION

Postgraduate Artificial Intelligence and Data Science Loyalist College of Applied Arts and Technologies, Toronto, Canada	GPA: 3.9/4.0	May 2021 - December 2022
Bachelor of Engineering - Computer Engineering Gujarat Technological University, Gujarat, India	GPA: 7.9/10	May 2015 - April 2019

ACADEMIC PROJECTS

Restaurant Menu Customization System	Jan. 2022 - April 2022
<ul style="list-style-type: none">Developed a system enabling restaurant owners to upload menus, process them via AWS Lambda and Rekognition, and allow customers to customize dishes with dynamic pricing and taste adjustments.Tools & Technologies: AWS Lambda, Rekognition, Python, DynamoDB.	

Depression Detection in Tweets using Machine Learning Classifiers Models	May 2022 - August 2022
<ul style="list-style-type: none">Developed ML models using Word2Vec and Emoji2Vec for detecting depression in tweets.Tools & Technologies: Python, Word2Vec, Emoji2Vec, Scikit-learn, NLTK	

CERTIFICATIONS & ACCOMPLISHMENTS

AWS Certified Machine Learning Specialist Certification by Amazon Web Services - Credentials	775/1000	April 2022
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