

Data Scientist with 3 years of experience in scalable ML models, cloud deployments, and automation. Skilled in Python, Kubernetes, and AWS, with a dedication to transforming data into impactful insights. Eager to drive data-driven solutions in a dynamic, growth-focused environment.

Skills

- Python, R, C++
 - EDA, DataWrangling,
 - Feature Engineering
 - Matplotlib, Seaborn
 - Excel, Tableau
 - Linux (Ubuntu)
- Machine learning, NLP, AI
 - scikit-learn, TensorFlow,
 - MLflow, Transformers
 - LLMs-fine_tunning, CNN.
 - SQL,MongoDB,VectorDBs
 - Jira, Trello,
- AWS, GCP, Heroku
 - Docker, Kubernetes, CI/CD
 - FastAPI, Flask, Streamlit
 - Practical Teaching.
 - Effective communication
 - Team Collaboration

Work Experience

Machine Learning Engineer, Cherukuru Technologies & Consulting Limited, Toronto, ON

Immigration RAG-Based AI Chatbot (09/2023–09/2024)

- Developed a high-performance RAG-based chatbot using Llama2 7B, LangChain, and Pinecone DB for NLP tasks, integrating complex text processing with regex.
- Optimization: Achieved a 22% increase in processing speed and an 18% capacity boost using MLflow and AWS SageMaker for automated scaling.
- Impact: Reduced operational costs by 15% and improved client satisfaction by 20%

Machine Learning Engineer, Maxgen Technologies Pvt. Ltd., India (10/2019- 04/2022)

Crop Health Monitoring System

- A key contributor to a large-scale agricultural project, implementing CNN models (VGG16, ResNet) on **Kubernetes** for enhanced scalability and model orchestration.
- **Deployment:** Built end-to-end **CI/CD pipelines** on **AWS** with **MLflow** and **Docker**, improving prediction accuracy by 25% and crop yield accuracy by 30%.
- Cross-functional Collaboration: Collaborated with data engineering teams using **Hadoop** and **Spark** to manage and scale big data workflows.

Freelance Data Analyst | Retail Sales Performance Dashboard (Since 2020)

- Analyzed retail data for various clients, utilizing SQL, Python, and Tableau to drive insights into sales growth, inventory turnover, and profit margins.
- Created interactive dashboards, identifying a 22% regional sales increase and a 20% reduction in stockouts, enhancing strategic planning.

Key Projects ([GitHub](#))

E-Commerce Product Recommendation System

- Developed a hybrid recommender system combining content-based and collaborative filtering models, achieving 88% precision and deploying with **FastAPI** and **Docker on GCP Kubernetes**.

Customer Churn Analysis and Prediction

- Achieved a 93% F1 score on XGBClassifier and ANN models, deploying an API with **Flask** and **Docker** on Heroku, using **Apache Spark** for large-scale data handling.

Sentiment Analysis on Amazon Food Reviews

- Implemented sentiment analysis using **RoBERTa** and **VADER** models, achieving high accuracy through robust NLP preprocessing with **NLTK**.

Education

Post Graduation in Artificial Intelligence and Machine Learning. (05/2022–12/2023)
Lambton College, Toronto, ON (GPA: 3.6/4)

Bachelor of Engineering in Computer Science. (09/2015–08/2019)
Gujarat Technological University, Gujarat, India (GPA: 3.8/4)

Certification & Award

- Google Data Analytics Certification
 - Python for Data Science by IBM
 - Advanced SQL from Simplilearn
 - Microsoft PowerBI by Simplilearn
 - Generative AI from iNeuron.AI
- Machine learning from IBM
 - NLP and DeepLearning,DeepLearning.AI
 - Award for Innovation in Data Imputation,
 - Innovate India Coding Hackathon 2018
 - Employee of the Year: MaxGen Technology