

Rhythm Bhavsar

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SKILLS

Programming Languages & Paradigms: Python, SQL, Functional Programming, Object-Oriented Programming (OOP)

Machine Learning & Data Science: Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Time-Series Analysis

Large Language Models (LLMs) & NLP: QLoRA, LLaMA, GPT, BERT, Transformers, RAG Architecture, NLTK, Text Preprocessing, Word2Vec, GloVe

Cloud & Deployment: AWS (S3, Glue, Athena, SageMaker, Lambda), Azure (Function Apps, Containers), Flask, FastAPI, REST API

Business Intelligence & Visualization: Tableau, Power BI, AWS QuickSight, SQL Query Optimization, Dashboard Development

Graph Technologies & Data Infrastructure: Neo4j, OWL Ontologies, Knowledge Graphs, Data Pipelines, ETL Processes

Statistical Analysis & Modeling: Hypothesis Testing, Regression Models, Distribution Analysis, Experimental Design

Tools & Workflow: Git, Agile Methodologies, Technical Documentation, Stakeholder Communication

RELEVANT EXPERIENCE:

Dwellci AI

New York, United States

Machine Learning Engineer (Internship)

July 2024 – Present

- Working on AI-powered smart living solutions by leveraging Knowledge Graphs, OWL ontologies, and Neo4j to structure and reason over contextual data. Designed and implemented graph-based data pipelines that enable dynamic, intelligent decision-making for residential environments.
- Fine-tuned LLaMA models using QLoRA on proprietary datasets to personalize responses and optimize inference latency. Integrated these models into real-time applications through efficient model serving techniques and lightweight deployment strategies.
- Managed full-cycle machine learning workflows including extensive data preprocessing, feature engineering, model training, evaluation, and deployment on scalable infrastructure. Collaborated with cross-functional teams to embed models into production-grade microservices, ensuring robustness and maintainability in real-world environments.

CareEscapes AI

Boston, United States

Machine Learning (Experiential Learning Project)

April 2025 – June 2025

- Collaborated with a cross-functional team to develop a production-ready MVP chatbot that uses Retrieval-Augmented Generation (RAG) to streamline clinic appointment booking, reducing administrative friction and improving patient interaction efficiency.
- Designed a retrieval pipeline that connects domain-specific knowledge with QLoRA-fine-tuned LLaMA models, ensuring accurate and context-aware responses. Integrated semantic search with vector stores and custom embeddings for optimal retrieval performance.
- Deployed the solution using Azure Cloud services, configuring scalable compute environments and storage, optimizing containerized deployments using Azure Container Instances and Function Apps. Strengthened experience in cloud-native machine learning, real-time NLP applications, and healthcare-oriented conversational AI systems.

Voidek Webolutions

Bardoli, India

Data Scientist

January 2023 – June 2024

- Developed and deployed scalable Machine Learning models using AWS SageMaker, Lambda, and API Gateway, optimizing real-time data synchronization across CRM and ERP systems, which improved efficiency by 30% and minimized data inconsistencies.
- Fine-tuned the LLaMA model on personalized datasets to build an AI-powered chatbot, enhancing customer interactions and response accuracy. Additionally, experimented with Large Language Models (LLMs) like GPT and BERT to identify the most effective model for automating business-specific tasks and improving user engagement.
- Automated CRM-ERP integration using Deep Learning and NLP-based models, reducing manual intervention by 70% and enhancing data accuracy and workflow efficiency. Fetched and processed large-scale real-time data from Putty Server using SQL, deployed models via Flask-based APIs, and ensured seamless integration with enterprise applications for end-to-end automation.

EDUCATION

Northeastern University

Expected: May 2026

MPS in Applied Machine Intelligence

Cumulative GPA: 3.8/4.0

Gujarat Technological University (GTU)

May 2023

B.Voc in Software Development

Cumulative GPA: 9.4/10.0

CERTIFICATIONS AND TRAININGS

Advanced Certificate Program in Data Science

Sept 2023 – May 2024

IIIT Bangalore & upGrad

Data Science Bootcamp

Dec 2021 – May 2022

Odin School

Azure Administration Essential Training

October 2024

LinkedIn Learnings