


ADITYA KAMATH

Mumbai

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Experience

Quantiphi

Dec 2022 – Present

Machine Learning Engineer

Mumbai, India

- Developed and maintained the ML backend for ICICI Bank chatbots across platforms with over 10k daily active users.
- Enhanced chatbot user interactions by 30% through optimization of an open-source model, leading to a 15% reduction in downtime.
- Improved system scalability using Docker and Kubernetes, reducing deployment time by 25% and ensuring robust performance across all platforms.
- Built and optimized end-to-end ML pipelines for TIAA using Google Contact Center AI, enabling sentiment analysis and topic tagging, and populating real time insights into dashboards with a 50% performance improvement via OOP and multiprocessing techniques.
- Researched and implemented Generative AI in private environments for a pharmaceutical company, achieving 93% accuracy in document-indexed responses by training models on sensitive data.

Machine Learning Engineer Intern

Aug 2022 – Dec 2022

- Designed a pipeline to monitor and analyze responses generated by the Flan-T5 model, ensuring quality and relevance.
- Applied LDA and Top2Vec algorithms for topic modeling on unsupervised conversation data, improving data insights.
- Conducted code reviews and resolved issues during model training and deployment, reducing error rates by 12%.

Phemesoft

May 2021 – June 2021

Android App Developer Intern

Mumbai, India

- Developed an attendance app with real-time geolocation tracking using Firebase.
- Incorporated a single-page login system with role-based access for Admin, Employer, and Employee users.

Projects

Conversation Confidence Coach

November 2021 - March 2022

- Built a speaker confidence classification system for online interviews using blink, pose, and gaze detection algorithms.
- Trained models like Multi-layer Perceptron and Support Vector Machines for speech emotion recognition, achieving 83% accuracy.

Self-Driving Car Simulation using Deep Learning

July 2021 - October 2021

- Augmented and pre-processed 10,000 images using data points from the Udacity Simulator.
- Executed a CNN model inspired by NVIDIA research, enabling autonomous vehicle navigation across 100 laps.

Smart Cart using RaspberryPi

December 2020 - April 2021

- Designed an IoT-based smart cart system with weighted precision of 0.92 for walk-out shopping.
- Integrated a CNN classifier and QR code scanner, reducing the false positive rate by 27%.

Education

Mukesh Patel School of Technology Management and Engineering

June 2018 – August 2022

Bachelor of Technology in Electronics and Telecommunications

CGPA 3.95/4

- Related Courses: Computer Networks, Database Management Systems, Statistical methods and Analysis, Speech Processing, Image and video Processing

Minor in Artificial intelligence and Machine learning

- Related Courses: Machine Learning, Deep Learning, Pattern and Anomaly Detection

Skills

Languages: Python, SQL

Databases: BigQuery, Redis, Postgres, Firestore, MongoDB, MySQL

Tools: Git, Postman, GCP (Cloudrun, Cloud Functions, Kubernetes, VertexAi, Log Explorer), Docker, Tableau, Power BI

Frameworks: Flask, FastApi, Apache Beam, LangChain, TensorFlow, PyTorch, Scikit-learn, Numpy, Pandas, Scipy

Cloud: Google Cloud Platform, Terraform

Technical Skills: Supervised Learning, Unsupervised Learning, Data Preprocessing, Topic Modelling, Natural Language Processing, Statistical Analysis, Predictive Analysis, Sentence-Transformers

Certifications

Google Cloud Platform: Google Cloud Professional Machine Learning Engineer, Google Cloud Certified Professional Cloud Architect, Google Cloud Certified Associate Cloud Engineer

IBM: Artificial Intelligence & Machine Learning Graduate