ANIRUDDHA HD

AI/ML Engineer & Deep Learning Specialist

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PROFESSIONAL SUMMARY

Experienced AI/ML Engineer with expertise in deep learning, machine learning, computer vision, natural language processing, and MLOps. Proficient in Python, TensorFlow, PyTorch, AWS, Docker, and Kubernetes. Demonstrated success in developing and deploying scalable deep learning models for production environments. Strong background in data science, model optimization, and end-to-end machine learning pipeline development.

PROFESSIONAL EXPERIENCE

Deep Learning and MLOps Intern

Basava Pracheena Vaidya Anveshana Pvt Ltd.
May 2024 – Dec 2024 | Bengaluru, Karnataka

- Developed and deployed scalable deep learning models for medical image analysis using YOLO and CNN architectures
- Implemented MLOps workflows using Docker, AWS SageMaker, and MLflow for model versioning and tracking
- Optimized data preprocessing pipelines and model evaluation metrics for improved performance
- Collaborated with cross-functional teams to integrate AI solutions into production systems

FEATURED PROJECTS

AI-Powered Virtual Assistant for Object Detection

Python, OpenCV, YOLOv9, Hugging Face Transformers, FastAPI, MLflow, Docker

- Implemented real-time object detection system using YOLOv9 with natural language processing capabilities
- Designed and deployed RESTful API using FastAPI with containerized microservices architecture
- Integrated MLOps pipeline with MLflow for experiment tracking and model versioning

Leaf Disease Detection System

TensorFlow, CNN, FastAPI, Flask, Docker, PlantVillage Dataset

- Developed CNN-based classification model for plant disease detection achieving 95% accuracy
- Built scalable REST API with containerized deployment using Docker and Kubernetes
- Implemented data augmentation and transfer learning techniques for improved model performance

Movie Recommender System

Python, Streamlit, Scikit-Learn, pandas, NumPy, TMDB API

- Engineered content-based recommendation system using cosine similarity and feature engineering
- Developed interactive web application using Streamlit with real-time recommendation capabilities
- Processed and analyzed large-scale movie dataset for feature extraction and model training

TECHNICAL SKILLS

PROGRAMMING LANGUAGES
Python, JavaScript, TypeScript, SQL, HTML, CSS

MACHINE LEARNING & DEEP LEARNING
TensorFlow, PyTorch, Keras, Scikit-Learn, Computer Vision, NLP, Neural Networks

CLOUD & DEVOPS
AWS SageMaker, Docker, Kubernetes, MLflow, Git, CI/CD

DATA SCIENCE & ANALYTICS
NumPy, pandas, OpenCV, Matplotlib, Seaborn, Jupyter

WEB DEVELOPMENT
React, FastAPI, Flask, Streamlit, REST APIs, Microservices

TOOLS & PLATFORMS
VS Code, PyCharm, AWS, Linux, Windows, MacOS

EDUCATION

Bachelor of Engineering in Artificial Intelligence and Machine Learning

Jyothy Institute of Technology, Bengaluru
2021 – 2025 | CGPA: 7.74/10

Pre-University Course in Computer Science

Vidyabharathi PU College, Shivamogga
2019 – 2021

CERTIFICATIONS

Machine Learning Specialization - Coursera by Stanford University

Deep Learning Specialization - DeepLearning.AI by Andrew Ng

Mathematics for Machine Learning & Data Science - DeepLearning.AI by Luis Serrano

LANGUAGES & INTERESTS

Languages: English (Professional), Kannada (Native), Hindi (Conversational)
Interests: Computer Vision, Natural Language Processing, MLOps, Open Source Contribution, AI Research, Machine Learning, Deep Learning, Data Science, Software Engineering, Cloud Computing, DevOps, Automation, Innovation, Problem Solving, Team Collaboration, Leadership, Mentoring, Continuous Learning, Technology Trends, Industry Best Practices