ANIRUDDHA HD

AI/ML Engineer & Deep Learning Specialist

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PROFESSIONAL SUMMARY

Results-driven AI/ML Engineer with 1+ years of experience in machine learning, deep learning, computer vision, and natural language processing. Proven track record of creating and deploying production-ready deep learning models achieving 95% accuracy. Expert in Python, TensorFlow, PyTorch, AWS, Docker, and Kubernetes. Strong background in MLOps, data science, model optimization, and end-to-end machine learning pipeline development. Demonstrated success in building production-ready AI solutions and collaborating with cross-functional teams.

PROFESSIONAL EXPERIENCE

Deep Learning and MLOps Intern
Basava Pracheena Vaidya Anveshana Pvt Ltd.
May 2024 – December 2024 | Bengaluru, Karnataka

- Created and deployed production-ready deep learning models for medical image analysis using YOLO and CNN architectures, improving diagnostic accuracy by 25%
- Established comprehensive MLOps workflows using Docker, AWS SageMaker, and MLflow for model versioning, tracking, and deployment automation
- Streamlined data preprocessing pipelines and model evaluation metrics, reducing training time by 30% and improving model performance
- Collaborated with cross-functional teams including data scientists, software engineers, and medical professionals to integrate AI solutions into production systems
- Built and maintained CI/CD pipelines for automated model testing, validation, and deployment using GitHub Actions and AWS services

KEY PROJECTS

AI-Powered Virtual Assistant for Object Detection
Python, OpenCV, YOLOv9, Hugging Face Transformers, FastAPI, MLflow, Docker, AWS

- Engineered real-time object detection system using YOLOv9 with natural language processing capabilities, achieving 92% detection accuracy
- Designed and deployed scalable RESTful API using FastAPI with containerized microservices architecture, handling 1000+ concurrent requests
- Established comprehensive MLOps pipeline with MLflow for experiment tracking, model versioning, and automated deployment workflows
- Created automated testing and monitoring systems for model performance and system reliability

Leaf Disease Detection System
TensorFlow, CNN, FastAPI, Flask, Docker, Kubernetes, PlantVillage Dataset

- Built CNN-based classification model for plant disease detection achieving 95% accuracy using transfer learning and data augmentation techniques
- Constructed scalable REST API with containerized deployment using Docker and Kubernetes, supporting real-time inference for agricultural applications
- Applied advanced data augmentation and transfer learning techniques, improving model generalization and reducing overfitting
- Generated comprehensive documentation and deployment guides for production system maintenance

Movie Recommender System
Python, Streamlit, Scikit-Learn, pandas, NumPy, TMDB API, Machine Learning

- Engineered content-based recommendation system using cosine similarity and feature engineering, achieving 85% user satisfaction rate
- Created interactive web application using Streamlit with real-time recommendation capabilities and user-friendly interface
- Processed and analyzed large-scale movie dataset with 50,000+ entries for feature extraction and model training
- Designed A/B testing framework to evaluate recommendation algorithm performance and user engagement metrics

TECHNICAL SKILLS

Programming Languages
Python, JavaScript, TypeScript, SQL, HTML, CSS, Java, C++

Machine Learning & Deep Learning
TensorFlow, PyTorch, Keras, Scikit-Learn, Computer Vision, NLP, Neural Networks, CNN, RNN, LSTM

Cloud & DevOps
AWS SageMaker, Docker, Kubernetes, MLflow, Git, CI/CD, Jenkins, Terraform

Data Science & Analytics
NumPy, pandas, OpenCV, Matplotlib, Seaborn, Jupyter, Tableau, Power BI

Web Development
React, FastAPI, Flask, Streamlit, REST APIs, Microservices, Node.js, Express.js

Tools & Platforms
VS Code, PyCharm, AWS, Linux, Windows, MacOS, Google Cloud Platform, Azure

EDUCATION

Bachelor of Engineering in Artificial Intelligence and Machine Learning
Jyothy Institute of Technology, Bengaluru
2021 – 2025 | CGPA: 7.74/10

CERTIFICATIONS

Machine Learning Specialization
Stanford University & DeepLearning.AI
2023