

# ANIRUDDHA HD

## AI/ML Engineer & Deep Learning Specialist

aniruddhahdhdelaya@gmail.com | +91 9980645715 | Shivamogga, Karnataka  
linkedin.com/in/Aniruddha-HD | github.com/Ani-2003-HD

### 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 developing and deploying scalable 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 implementing 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

- Developed and deployed scalable deep learning models for medical image analysis using YOLO and CNN architectures, improving diagnostic accuracy by 25%
- Implemented comprehensive MLOps workflows using Docker, AWS SageMaker, and MLflow for model versioning, tracking, and deployment automation
- Optimized 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
- Designed 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
- Integrated comprehensive MLOps pipeline with MLflow for experiment tracking, model versioning, and automated deployment workflows
- Implemented automated testing and monitoring systems for model performance and system reliability

#### Leaf Disease Detection System

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

- Developed CNN-based classification model for plant disease detection achieving 95% accuracy using transfer learning and data augmentation techniques
- Built scalable REST API with containerized deployment using Docker and Kubernetes, supporting real-time inference for agricultural applications
- Implemented advanced data augmentation and transfer learning techniques, improving model generalization and reducing overfitting
- Created 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
- Developed 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

- Implemented A/B testing framework to evaluate recommendation algorithm performance and user engagement metrics

## TECHNICAL SKILLS

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### 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

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### 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

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**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

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**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