

# ARIHARAN K C

## AI/Machine Learning Developer

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### SUMMARY

AI/ML Developer skilled in machine learning pipelines, model evaluation and production deployment using python, FastAPI and AWS. Experienced in building scalable, production-ready applications, designing REST APIs, and working in Agile teams.

### EXPERIENCE

#### Machine Learning Intern

Ideas New Info Tech | *May 2025 – Present*

- Designed and implemented data preprocessing pipelines including data cleaning, validation, normalization, and transformation using Python, Pandas, and NumPy.
- Built ETL pipelines for data ingestion, consistency checks, dataset versioning, and feature extraction to support reliable machine learning model training.
- Developed and evaluated machine learning models for classification and predictive analytics using scikit-learn, TensorFlow, and PyTorch.
- Performed feature engineering, feature selection, and dataset optimization to improve model generalization and training stability.
- Evaluated models using accuracy, precision, recall, F1-score, and validation techniques to support data-driven optimization.
- Optimized data workflows and preprocessing logic, improving model training performance by 37%.
- Collaborated with data scientists, ML engineers, and backend developers in an Agile/Scrum environment.
- Deployed containerized ML-enabled services using Docker on AWS EC2 and S3 for scalable and reproducible execution.
- Followed clean code principles, Git version control, documentation standards, and best practices for ML experimentation.

### PROJECTS

#### Thuliyam AI

Live: <https://thuliyam-ai.vercel.app>

**Technologies: Python, FastAPI, REST APIs, Docker, Next JS**

- Designed and deployed a production-grade AI application serving 100+ active users.
- Integrated machine learning inference workflows into scalable FastAPI-based REST APIs.
- Implemented request validation, error handling, logging, and performance optimization.
- Deployed the system on cloud infrastructure, focusing on scalability, security, and maintainability.
- Monitored application performance and improved features based on real user feedback.

NEXA-AI | [Github](#)

**Technologies: Python, FastAPI, REST APIs, LangChain, JavaScript**

- Developed a modular AI backend supporting NLP-driven automation and validation using LLMs and LangChain.
- Built reusable services for AI orchestration, structured responses, and validation pipelines.
- Improved system reliability by 45% through modular design and clean architecture.
- Deployed cloud-ready backend services for production usage.

### EDUCATION

- MCA — M. Kumarasamy College of Engineering (Pursuing, 2024–2026)
- B.Sc Computer Science — K.S.R. College of Arts and Science (2021–2024)

### CERTIFICATIONS

- AWS Cloud Practitioner – Amazon Web Services
- Innovation Ambassador – AICTE
- Oracle Foundations AI Associate – Oracle University
- Power BI for Data Analytics – Simplilearn

## **TECHNICAL SKILLS**

Programming Languages:Python, Java, C, JavaScript, TypeScript

Machine Learning and AI:scikit-learn, TensorFlow, Keras, PyTorch, CNNs, NLP, LLMs, LangChain, ML Algorithms, Model Evaluation

Data and Analytics:Pandas, NumPy, SQL, NoSQL, Data Cleaning, ETL Concepts, Feature Engineering, Excel, Power BI

Backend and APIs:FastAPI, Django, Flask, Node.js, REST APIs, React.js

Cloud and DevOps:AWS EC2, AWS S3, Docker, Git, GitHub, ML Deployments

Core CS Skills:Data Structures & Algorithms, OOP, Problem Solving, Debugging

Professional Skills:Agile Methodologies, Documentation, Team Collaboration, Research & Learning

## **HACKATHONS & WORKSHOPS**

- Hackspora 2025 (Top 10 Finalist)
- HackXelerate 2025
- AI Conclave 2025
- 3L Workshop 2022(National Level Seminar)