

Akash A

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About Me

A passionate and driven Computer Science Engineering student specializing in Artificial Intelligence, Machine Learning, and IoT. Skilled in building impactful solutions and exploring new technologies. Keen on bridging theoretical knowledge with real-world applications through research and development in AI and networking.

Education

Amrita Vishwa Vidyapeetham, Karunagappally, Kollam Sep 2023 – Present
B.Tech in Computer Science and Engineering (AI)
CGPA: 9.14

TKM Centenary Public School, Kollam 2021 – 2023
CBSE Senior Secondary (12th)
- Scored 94.6%, School Topper
- House Co-Captain, Football Team Member

Trinity Lyceum, Kollam 2011 – 2021
CBSE Class 10: 99.2%
- School Topper

Experience

ZoftSolutions – GenAI Intern Apr 2025 – Sep 2025
Working on a hybrid Computer Vision and Generative AI project. 6-month internship focused on real-world applications in GenAI.

Unified Mentor – Machine Learning Intern Apr 2025 – May 2025
Worked on a fraud detection system using classification algorithms and data pipelines.

VIDYUT – Workshop Coordinator Feb 2025 – May 2025
Organized and hosted a Unity Game Development workshop in collaboration with Infocom. Managed logistics and technical content delivery.

Projects

- **Fringe Value Prediction using Regression ML Model for Photoelasticity** – Ongoing research-based ML project.
- **AI & IoT-Enabled Smart Gait Analysis and Fall Detection System** – Real-time stroke rehabilitation tool using ESP32, FSRs, and ML.
- **Venom Protein Overlap Analysis Using Graph Algorithms** – Research project involving graph theory and bioinformatics.
- **Ant Colony Optimization-Based Pathfinding Robot** – A robotics project implementing ACO for obstacle navigation.
- **Cycle Sales Website (HTML, CSS, JavaScript, Flask)** – Dynamic frontend-backend web app for e-commerce.

- **Custom DNS Server with Caching and Round Robin Scheduling** – Improves DNS efficiency through scheduling and caching.
- **Blockchain Exam Record Keeper (Dockerized Flask App)** – Immutable mark storage system using blockchain principles, containerized with Docker.

Open Source Contributions

Currently contributing to OpenBMC. Focus areas include enhancing static analysis with Clang-Tidy, improving unit tests, and boosting code maintainability across core modules. New Redfish Device Enablement (RDE) improvements in OpenBMC – added new client test cases and documentation

Technical Skills

Languages: Python, C, HTML/CSS, JavaScript

Frameworks/Tools: Flask, TensorFlow, OpenCV, Scikit-Learn, Git, Jupyter

Areas of Expertise: Data Structures & Algorithms, Machine Learning, Regression, Web Development

Mathematics: Calculus, Linear Algebra, Differential Equations

Spoken Languages: English, Hindi, Malayalam (Native)

Soft Skills

- Leadership and team coordination
- Time management and multitasking
- Strong communication and presentation
- Analytical thinking and problem solving
- Fast learner and highly adaptable

Certifications

- **IBM Machine Learning Certification** – View Certificate
- **100 Days of Python – Angela Yu (Udemy)** – View Certificate
- **Data Structures & Algorithms (Udemy)** – View Certificate
- **AI For Everyone – Andrew Ng (Coursera)**

Extracurricular Activities

- **Tech Workshop Coordinator** – Managed event planning and delivery
- **Wall Painting Organizer** – Contributed to *Amritavarsham 2023* festivities
- **Football Team Player** – Active in school and college tournaments
- **Public Speaking** – Delivered talks on AI, ML, and Quantum Computing