KAVINDAR A

INNOVATING AT THE INTERSECTION OF AI, IOT, AND COMPUTING INFRASTRUCTURE.

CONTACT

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EDUCATION

R.M.K ENGINEERING COLLEGE
2022 - 2026 (Pursuing)

- Bachelors in Computer Science and Business Systems (CGPA: 7.85)

MAHARISHI VIDYA MANDIR
2022

- Grade 12 (88.2%)

2020

- Grade 10 (85.4%)

TECHNICAL SKILLS

- Languages: C++, Python
- Machine Learning
- Cloud: Google Cloud
- IoT & Embedded Systems: Arduino, IoT Sensors, NVIDIA Jetson Nano
- Version Control: Git, GitHub
- Containerization: Docker

AREA OF INTEREST

- Cloud Computing
- Container Models
- Virtualization
- Scalable Computing and Storage Solutions
- IoT and Embedded Systems

LANGUAGES

- English (Proficient)
- Tamil (Native Speaker)

EXECUTIVE SUMMARY

I am a passionate and quick learner with a foundation in Machine Learning, IoT, Operating Systems, and Computer Architecture. My experience includes deploying AI models, working with embedded systems like Arduino and NVIDIA Jetson Nano, and leveraging cloud technologies. I approach problems analytically and aim to contribute to impactful tech projects.

EXPERIENCE

NVIDIA AI and Edge Computing (Pantech) JULY 2024

Intern – AI Model Development and Edge Computing

- Developing and optimizing AI models for NVIDIA Jetson Nano, with a focus on image processing and local deployment of AI models. Exploring edge AI applications and enhancing model performance for real-world use cases.

JTG/IEEE ITSoc - IIT Hyderabad (Conference) JUNE 2024

International Conference on Internet Theory

- Gaining expertise in Error-Correcting Codes, Approximate Message Passing, and Reinforcement Learning

Cloud Co-Lead (Google Developer Student Clubs) 2023 - 2024

GDSC - Cloud Co-Lead at R.M.K Engineering College

- Recruited students for the GCCF cloud training program, organized training sessions, mentored participants in cloud computing skills. Coordinated with team members to develope cloud-based projects.

AICTE IDEA Lab - IoT May 2023 – Aug 2023

Intern – IoT Systems Development

- Developed a laser-based communication module using IoT devices for efficient data transmission. Worked with electronics and sensors to integrate IoT solutions

PROJECTS

Machine Learning

- **Customer Churn Prediction:** Built an XGBoost and CatBoost model achieving 86.4% accuracy and 86.7% F1 score.
- **Rainfall Prediction:** Designed a near-perfect precipitation forecasting model using historical weather data.
- **Disaster Prediction:** Developed a model with 79% accuracy to identify potential disasters through multi-source data analysis.
- **Remaining Useful Life Prediction:** Predicted equipment health using sensor data with nearly 100% accuracy.

NVIDIA CUDA Programming – Exploratory AI Project (2024)

- Developed a RAG (Retrieval-Augmented Generation) Model leveraging NVIDIA CUDA programming with Mistral LLM (Ollama), LangChain, and ChromaDB.

ACHIEVEMENTS

- Shown extensive leadership skills by conducting workshop for 60+ students on Google Cloud Computing through GDSC.
- Secured Elite+Silver certification in NPTEL IoT (87%).
- Best Paper Award – Department Paper Presentation (2024): Laser-Based Long-Distance Data Transmission and Signal Amplification, with a cash prize of ₹10,000 for development.
- First Place – Technical Quiz, Dextero's Wisdom Wizard Event