



Karthik Madhavan

Roll No.: URK21CS7046

B.Tech

Computer Science Engineering Specialization in AI & ML

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[GitHub Profile](#)

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EDUCATION

Karunya institute of technology and sciences, Coimbatore

DEC2021 - APRIL 2025

B.Tech Computer Science Engineering Specialization in AI & ML

CGPA: 7.45

Senthil Public Sr. Sec. School, Dharmapuri

APRIL 201 - MARCH 2019

All India Senior School Examination

Percentage: 80.8

EXPERIENCE

Cisco

MAY 2023 - JULY 2023

CISCO Cybersecurity Essentials

- During my internship at CISCO, I completed the "CISCO Cybersecurity Essentials" course, gaining expertise in cybersecurity fundamentals, threat analysis, and protective strategies.

PERSONAL PROJECTS

Driver Drowsiness Detection [link](#)

JAN 2024- MAR 2024

Driver Drowsiness Detection using CV and ML

- Tech: YOLOv8, Computer Vision, Roboflow
- Desc: Created a Driver Drowsiness Detection system using YOLOv8 and Computer Vision, with a dataset obtained from Roboflow. The system analyzes live video for signs of drowsiness (e.g., eye closure) to prevent accidents.

Text Summarization using LLMs [link](#)

MAY 2024- JUNE 2024

Developed automated tool to generate summary about the uploaded pdf

- Technologies: Cohere, Python, Flask, Tailwind CSS
- Created an automated tool to generate concise summaries using Cohere LLM and integrated a QA system for users to query PDF content.

Moneybox RAG support system [link](#)

JUNE 2024- JULY 2024

- Moneybox is a website where I scraped data from its customer support page. Using AI, I developed a system to automatically respond to user queries based on this data using Cohere (LLM) and Pinecone (vector database)

TECHNICAL SKILLS AND INTERESTS

Languages: Python ,Java ,JavaScript ,MySQL ,HTML & CSS ,Numpy ,Pandas

Technologies/Frameworks:

- [Intermediate]: Node.js, Angular.js, Flask, Tailwind CSS, LLMs (Cohere, GPT)
- [Beginner]: MongoDB, Express.js

Areas of Interest: Data Structures and Algorithms, Competitive Programming, Artificial Intelligence and Machine Learning

CERTIFICATIONS

Google, Google Cloud

2024

Udemy, Python for ML and DS Masterclass

2024

NPTEL, Introduction to Industrial 4.0 and Industrial IoT

2023

Microsoft, Microsoft Azure 900

2022

Coursera, Using Python to Access Web Data

2021

ACHIEVEMENTS

Hackathons: Participated in AI and 3D modeling hackathons, achieving finalist status.

Coding Skills: Achieved the status of a 3-star coder [@Leetcode](#), Solved over 300 questions.

30 Days of Google Cloud and HacktoberFest 2021: Received certificates and awards upon successful completion.

Prime Minister scholarship for CAPF: Orchestrated the selection process for Prime Minister scholarships for CAPF, awarded scholarships based on merit to drive educational advancement and career development.

NOTE: I hereby affirm the accuracy and veracity of the above statement.