

Muthu Eswaran

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CAREER OBJECTIVE

Aspiring Data Scientist and AI/ML professional seeking an opportunity to work on real-world problems involving data preprocessing, predictive modeling, machine learning, and LLM-based applications, contributing to impactful AI solutions while growing in a collaborative environment

EDUCATION

Master of Computer Application, *Karpagam Academy of Higher Education* 2024 – 2026
Coimbatore

Bachelor of Computer Science, *Aditanar College of Art's and Science* 2021 – 2024
Tiruchendur

PROJECTS

Phishing Website Detection and Malware Analysis

Developed a Phishing Website Detection and Malware Analysis System using Python, Scapy, and YARA. The system captures and analyzes network traffic in real-time to identify phishing domains and detect malicious payloads. By leveraging automated packet inspection and YARA-based scanning, it enhances the accuracy and efficiency of threat detection, enabling proactive cybersecurity measures and providing rapid identification of potential security risks.

Region-Based Human and Vehicle Detection System

Developed a Region-Based Human and Vehicle Detection System using YOLOv8 and OpenCV to identify and track objects within specific spatial zones in real-time. The system utilizes custom masking and coordinate-mapping techniques to focus processing power on high-traffic Regions of Interest (ROI), significantly reducing computational latency. By leveraging YOLOv8's advanced detection capabilities and optimized inference pipelines, it enhances the accuracy of environmental monitoring and provides a scalable solution for automated surveillance and traffic analysis.

COURSES

- **Master Generative AI(Artificial Intelligence)**, *Alison*
- **Computer vision with Python**, *Udemy*
- **Data Analytics using Power BI**, *Udemy*
- **Prompt Engineering**, *IBM*
- **Cloud Computing**, *IBM*
- **Data Science**, *Udemy*
- **Intro to LLM**, *Udemy*
- **SQL Basics**, *HackerRank*

SKILLS

AI/ML

- Machine Learning
- Deep Learning
- Tensorflow
- Prompt Engineering
- Agentic AI
- Gen AI
- LLM

Tools/Frameworks

- Linux
- TensorFlow
- PyTorch
- Git & Github
- Docker
- Jupyter Notebook & Google colab
- Power BI

Programming & Scripting

- C,C++,Java,Python,Shell scripting
- MySQL,PostgreSQL
- HTML, PHP

Core Computer Science

- Operating Systems
- Computer Networks
- Cloud Computing
- RDBMS

Cyber Security & Ethical Hacking

- Penetration Testing (Wireless and Network Security)
- Mobile and System Hacking

Soft Skills

- Adaptability
- Time Management
- Quick Learner
- Good Listener

CERTIFICATES

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|---|---------------------------------------|---------------------------------|
| • Foundation in coding and Cloud | • Data Fundamentals | • Fundamentals of Generative AI |
| • Master Generative AI(Artificial Intelligence) | • Agentic AI | • Cloud Computing |
| • Amazon Web Services: Basic | • Web Development | • Ethical Hacker |
| • Masters in Kali Linux | • Network Mastery for Ethical Hackers | |

CONFERENCE/SEMINAR ATTENDED

International seminar attended at Holy Cross Home Science College, Thoothukudi on topic of AI & ML.

National level seminars attended at Aditanar college of art's and science,

ACHIEVEMENTS

Participated in National Level Cyber Security Quiz online contest from Mandsaur University ,Mandsaur.

Participated in National Level Technical symposium at Holy Cross Engineering College, Tirunelveli.

Secured a Top 3% position on TryHackMe with a global rank of 44390