

Keerthivasan Mohan

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EDUCATION

Shiv Nadar University, B.Tech CSE (Cyber Security)
CGPA - 8.74

Nov 2022 – present | Chennai, India

PROJECTS

Emo-Py, OpenCV, YOLO, DeepFace, Feb 2023 – May 2023

- **Real-time** emotion detection system using **OpenCV** for video processing and **YOLO** for person detection.
- **DeepFace** for **emotion analysis**, detecting **seven** emotions: anger, disgust, fear, happiness, sadness, surprise, and neutrality.
- Supports both real-time **video streams** and **pre-uploaded videos** for emotion recognition.

Stego-Hider, Python, OpenCV, PIL, Hashlib

Jul 2023 – Dec 2023

- **Steganography** tool using the **LSB technique** to **encode and decode secret messages** within images.
- Ensured the **visual integrity** of images while embedding messages and added a **hash verification mechanism** for message authenticity.
- Developed a **user-friendly interface** for easy image selection and message embedding/extraction.

Hostel Mess Mgmt System, MySQL, PHP, HTML, CSS, JavaScript

Jul 2023 – Nov 2023

- **Web-based system** for **meal selection** and **membership management**, using **MySQL** for backend data handling.
- Automated the **invoicing process**, ensuring **billing accuracy** and implemented **secure protocols** for raw material requests.
- Designed a **responsive UI** for enhanced **user experience** and role-based access control.

DDoS Attack Detection System, Python, Scikit-learn, Pandas

Jan 2024 – Apr 2024

- A system to analyze **network traffic patterns** to detect potential DDoS attacks using **K-Means clustering**.
- Assessed the clustering quality using the **silhouette score** for enhanced detection accuracy.
- Enabled **real-time** network traffic monitoring with optimized feature extraction for **anomaly detection**.

INTERNSHIP

YesPanchi Tech Services Pvt Ltd, Web Development Intern

May 2024 – Jul 2024 | Chennai

- Developed a **comprehensive web portal** using **Python Flask API** with a **responsive** HTML front end.
- **Collaborated with a team** to integrate **APIs**, optimize performance, and ensure **cross-browser compatibility**.
- Assisted in **deploying the portal** on a **cloud server**, ensuring **scalability** and **security**.
- **Documented the development process** for seamless future maintenance.

TECHNICAL STACK AND FRAMEWORKS

Programming — Python, C, Java, SQL, HTML, Javascript

Framework/Libraries — Numpy, Pandas, Tableau, Scikit-Learn, Tkinter, OpenCV

Skills — Data Structures and Algorithms, Problem Solving, Exploratory Data Analysis and Visualization, Data Science, OOPs, DBMS, LaTeX

COURSES AND ACHIEVEMENTS

Computer Graphics, NPTEL

Sep 2023 – Nov 2023

Explored graphics pipeline stages and modern graphics hardware, including GPUs and the OpenGL library.

Edge Computing, NPTEL

Jan 2024 – Apr 2024

Explored theory and applications in low-latency, real-time computing scenarios, addressing cloud limitations. Covered frameworks, techniques, and platforms including Docker, Kubernetes, MQTT, and Kafka.

Envithon 23, Shiv Nadar University, Chennai

- Secured 3rd place at an environmental hackathon organized by NSS at Shiv Nadar University.
- Developed a website enabling farmers to upload images of crop leaves for disease identification.
- Demonstrated innovative problem-solving skills and commitment to environmental sustainability.

VishwaCTF 24 Mini, BRAC's VIIT, Pune

- Attained 13th place in VishwaCTF'24 Mini, a 24-hour jeopardy-style CTF competition.
- Showcased proficiency in information security through scavenger hunts, programming, and ethical hacking tasks.
- Successfully tackled challenges involving finding hidden flags, demonstrating problem-solving skills and cybersecurity expertise.