Nandini R T

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EDUCATION

Karpagam College of Engineering, Coimbatore,Tamil Nadu　　　　CGPA – 8.12
B.E Computer Science and Engineering　　　　　　　　　　　　　*Nov 2022 – May 2026*

Nirmala Matha Convent Matric Hr.Sec.School, Coimbatore, Tamil Nadu　　GPA – 8.0
HSC　　　　　　　　　　　　　　　　　　　　　　　　　　　*Jun 2021 – May 2022*

PROJECTS

Mouse Controller Using Hand Gesture | *Python, OpenCV, MediaPipe, TensorFlow/Keras*　Jul 2024 – Aug 2024
- Created a gesture-based system to control a computer mouse using computer vision.
- Integrated hand detection, gesture recognition, and cursor control in real-time.
- Enabled functionalities like clicks, scrolling, and cursor movement through gestures.

Fertilizer Optimizer | *C++, Arduino, NPK Sensor, Excel, IoT*　　　　Aug 2024 – Oct 2024
- Designed a system to optimize fertilizer application based on real-time soil nutrient data.
- Utilized NPK sensors for precise measurement of nitrogen, phosphorus, and potassium levels.
- Programmed algorithms in C++ and integrated with Arduino for efficient processing and control.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL , JavaScript, HTML/CSS
Frameworks: TensorFlow, OpenCV, Streamlit
Developer Tools: Git, GitHub, Docker, Google Colab, VS Code, Jupyter NoteBook, Eclipse
Libraries: Pandas, NumPy, Matplotlib

CERTIFICATIONS

Advanced C Programming　　　　　　　　　　　　　　　　　　Oct 2024
Udemy
- Enhanced knowledge of advanced C programming concepts, including pointers, and file handling.
- Gained proficiency in implementing complex algorithms and data structures in C.
- Strengthened debugging and problem-solving skills for optimizing C applications.

MongoDB Basics　　　　　　　　　　　　　　　　　　　　　　Sep 2023
MongoDB - ICT Academy
- Learned the fundamentals of MongoDB, including CRUD operations and basic database management.
- Gained an understanding of collections, documents, and JSON-like data structures.
- Practiced working with MongoDB Shell and basic query operations for data retrieval and manipulation.

SCHOLASTIC ACHIEVEMENTS AND EXTRA CURRICULARS

TECHNICAL
- Won 1st Prize in Eureka Idea Pitching Contest
- Participated in a Workshop on LLM Models for Gen AI -PSG
- Participated in a Workshop on Mongo DB Essentials – NIT
- Indulged in the Bangalore Tech Summit'23
- Frequently conducted Lectures on Complex topic for my Classmates

NON TECHNICAL
- Selected among the Top 30 teams out of 120 at College level Prelims for SIH'24
- MC Coordinator of Dhruva'23 (CSE Department)
- Alumni Coordinator for NBA Visit
- Class Coordinator of Kindle Club since 2023