

KOUSHIK S

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Education

Coimbatore Institute of Technology

Oct 2019 – May 2025

B.E. Computer Science and Engineering

CGPA: 7.43

Courses: Data Structures and Algorithms, Database Management, Computer Networks, Internet of Things, Operating Systems.

Bharatiya Vidya Bhavan Matriculation Higher Secondary School

Jun 2018 – May 2019

Higher Secondary Schooling

Percentage: 91

Experience

Geonx Logix Pvt.Ltd

Jan 2024 – Feb 2024

Flutter Application Developer Intern

Madurai, India

- Hands-on experience with Android Studio, Java, and Kotlin was gained during my internship, contributing to the development of user-friendly and efficient applications
- At Geonx Logix Technologies, I was trained as an intern in Android app development, where mobile applications were created and optimized in collaboration with senior developers.
- Collaboration with cross-functional teams, including designers and project managers, was carried out to ensure seamless integration of new features and improvements.

Emglitz Technologies

July 2023 – August 2023

Internet of Things Intern

Coimbatore, India

- At Emglitz Technologies, I was trained as an intern in the Internet of Things (IoT) domain, where innovative IoT solutions were designed and implemented in collaboration with experienced developers.
- Extensive experience with IoT frameworks, sensors, and wireless communication protocols was acquired during my internship, contributing to the development of cutting-edge IoT systems.
- Participation in the entire IoT development process, from initial design and coding to testing and deployment, was a crucial part of my responsibilities.

Projects

Temperature Based Fan Speed Controller | Wokwi, Arduino Simulator

May 2024

- A temperature-based fan speed controller was developed, utilizing IoT technology on the Arduino platform to regulate fan speed automatically based on ambient temperature.
- Temperature sensors, such as the DHT11, were integrated to continuously monitor environmental conditions.
- A user interface was developed, potentially using an LCD display or mobile app, to provide real-time temperature readings and fan speed status.

Advanced Fire Detection and Suppression Using Drone | YOLO, Twilio API, Arduino, ImageGrab

April 2024

- Developed an semi-autonomous drone-based fire detection system using advanced image processing and machine learning algorithms (YOLO) for real-time monitoring of fire-prone areas.
- Implemented an SMS notification system using Twilio API to alert responders about detected fires.
- Incorporated a chemical ball drop mechanism for fire suppression, using ammonium sulfate and ammonium phosphate for rapid temperature reduction and fire extinguishment

Handwritten Document Digitization System | Convolutional Neural Networks (CNN), Python, Flask

August 2023

- Created a system that converts handwritten documents into digital format using CNNs, specifically targeting medical prescriptions for enhanced accuracy and accessibility.
- Designed a client-server architecture with Flask to process image uploads and handle model inference, and developed a drag-and-drop interface for user interaction.
- Integrated OpenCV for preprocessing and Sklearn for label encoding, achieving high-accuracy recognition of handwritten text

Technical Skills

Languages: Python, C, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Figma, Canva

Technologies/Frameworks: Linux, Github, Wireshark, Tensorflow

Certifications and Achievements

- **EDX**— 'Python Basics for Data Science, 'Introduction to Data Science,' 'Data Science Tools'. .
- **COURSERA**— 'Foundation of Cybersecurity'
- **COGTIS TECHNOLOGIES**—'Comprehensive training in C, C++, Python with Data Science, and Java '
- **Third prize** was awarded in **Innovision 24**, a **hackathon** conducted by the Department of CSE at CIT College.