

AAKASH D

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Education

Kingston Engineering College

B.E. Electronics and Communication Engineering

Nov 2021 – Apr 2025

Vellore, Tamil Nadu

Relevant Coursework

- Python Programming
- Data Structures
- VLSI
- Embedded System
- Artificial Intelligence
- Internet of Things
- Digital Electronics

Experience

OP Mobility

Jul 2024 – Aug 2024

Industrial Engineer Intern

Ranipet, India

- Contributed to projects involving digital workstations and electrical troubleshooting.
- Assisted in designing and programming PLC systems for automation projects, using ladder logic and structured text.
- Conducted testing and troubleshooting of PLC hardware and software to ensure efficient system operation.
- Assisted in the development and implementation of automation workflows, enhancing production efficiency and compliance with industry standards.

Projects

ID Card Detection | *Python* | *OpenCV* | *ESP32 CAM*

- **Problem** : Many students are Facing Attendance Issues .
- Programmed the ESP32-CAM to capture high-resolution images and stream them to a server.
- Utilized Python OpenCV to preprocess images, including resizing, noise reduction, and edge detection.
- Implemented object detection algorithms to accurately locate and extract ID cards from the images.
- Integrated Tesseract OCR to read and verify textual information on the detected ID cards.
- Ensured real-time processing and optimized performance for efficient detection and extraction.

CHATBOT | *Python* | *NLP* | *NLTK*

- Designed and developed a chatbot using Python, implementing Natural Language Processing (NLP) techniques for user query handling.
- Utilized libraries such as NLTK, TensorFlow, and NumPy to build and train the chatbot for efficient conversational interactions.
- Integrated machine learning algorithms to improve response accuracy and support real-time user interaction.
- Created a user-friendly interface using Python's Tkinter for seamless communication between the chatbot and users.

Technical Skills

Programming Languages : Python, Java, C, HTML/CSS, MATLAB, Verilog

Developer Tools/Technologies : VS Code, GitHub/Git, Pycharm, Microsoft Office, Windows

Certifications

- **The Complete Python Developer** - Udemy
- **Git and GitHub** - Udemy
- **Network Essentials** - Cisco
- **Java for Beginners** - Great Learning

Extracurricular Activities

NSS (National Service Scheme)

Apr 2023

Student Volunteer

Kingston Engineering College

- Participated in NSS camp focused on community service and development.
- Organized health awareness programs, cleanliness drives, and educational outreach.
- Demonstrated leadership, teamwork, and commitment to social responsibility through hands-on community projects.