

AJAYVENKATESH P S

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Skills

Languages: C, Java, SQL, HTML/CSS, JavaScript.

Technologies & Tools: ML, CNN, Android Studio, AWS (S3, EC2),

Database: MongoDB, MySQL, PostgreSQL.

Education

College of Engineering, Anna University, Chennai

Sep 2023 – Present

Master of Computer Applications (MCA)

CGPA: 7.5/10

Relevant Coursework: Object Oriented Programming, Databases, Applied Maths, Data Structures, Computer Networks, Data Science, Android, Design and Analysis of Algorithms, Internet of Things, Full Stack Software Development, Software Engineering.

The American College, Madurai

Jun 2020 – Apr 2023

Bachelor of Science in Computer Science

CGPA: 8.03/10

Projects

- **Lung Disease Classification Using ResNet50 with Improved Adaptive Grey Wolf Optimization (IAGWO):** Developed a deep learning model for multi-class lung disease classification (Normal, Edema, Pleural Effusion) using ResNet50 and DICOM images. Integrated Improved Adaptive Grey Wolf Optimization (IAGWO) for efficient hyperparameter tuning and performance enhancement.
- **ShoeHUB:** Built an intuitive e-commerce website with an appealing user interface, integrated with Stripe for payment processing and implemented an autocomplete feature using the Trie data structure. Tools Used: ReactJS, Express, Sneaks API for Shoe data, Strip payment Portal and payment service (Test Mode). Trie Data Structure for autocomplete feature.
- **Automated Mail Generation:** Developed a Python script to automate email generation, streamlining communication for the Department's Association of Computer Applications for automated email and certification distribution. Tools Used: Python, Pandas, email, openpyxl, SSL, smtplib.
- **Lumen Passus (IoT project):** "Lumen Passus" is a smart shoe designed to provide guidance and improve mobility for visually impaired people. Utilizing Arduino Uno, ultrasonic sensors, and a buzzer, this smart shoe detects obstacles and alerts the user through sound, ensuring a safer and more confident journey.
- **LearnLocate Android Application:** Developed an e-learning Android application using Java and Android Studio, which serves as a comprehensive learning management system. This project integrates Firebase as the backend database to store and manage user data, course materials, and progress tracking.

Achievements, Awards and Certificates

- **Technical Symposiums:** Awarded 2nd Place in the Blind Typing (Programming) competition at "Nictitate'23" a National Level Technical Symposium organized by Kamaraj College of Engineering and Technology.
- **Inter-College Event:** Secured 3rd Place in the Technical Quiz held at The American College, Madurai.
- **Junior Grade Typewriting English:** Achieved a typing speed of 30 words per minute, awarded First Class at the Government Technical Examination.
- **Senior Grade Typewriting English:** Achieved a typing speed of 45 words per minute, awarded Second Class at the Government Technical Examination.