

CHANDHANA C

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Education

Amrita Vishwa Vidyapeetham

BTech in Computer and Communication Engineering, CGPA: 9.02 (as of Nov 2024)

Sep. 2022 – June 2026

Thiruvallur, Tamilnadu

Relevant Coursework

- Data Structures and Algorithms
- Machine Learning
- Deep Learning
- Natural Language Processing
- Database Management Systems
- Artificial Intelligence

Projects

E-commerce Product Recommendation System | *Python, Pandas, Scikit-Learn*

May 2024

- Implemented a recommendation system using collaborative filtering to suggest products based on user purchase history.
- Processed and cleaned data using Pandas to build an accurate recommendation model.
- Trained the model to generate personalized recommendations, enhancing the user shopping experience.
- Integrated the model into a mock e-commerce environment to demonstrate real-time recommendation functionality.

Guitar Play Recognition System | *Python, TensorFlow, Keras*

August 2024

- Developed a system that recognizes guitar plays through audio spectrograms using a fusion of spectrograms and feature extraction.
- Achieved an accuracy of 99.04% by employing pre-trained models and machine learning classifiers.
- Optimized the model for real-time performance in recognizing guitar chords and notes.

Quality Grading and Maturity Detection of Dragon Fruit | *Python, OpenCV, TensorFlow*

July 2024

- Created a customized Convolutional Neural Network (CNN) to analyze images of dragon fruit for quality grading and maturity detection.
- Conducted real-time testing using a mobile application to evaluate fruit quality in various conditions.
- Implemented data augmentation techniques to improve model robustness and accuracy.

Technical Skills

Languages: Python, Java, C++, SQL

Developer Tools: VS Code, Eclipse, Git, Google Cloud Platform

Technologies/Frameworks: Linux, AWS, Flask, React

Leadership / Extracurricular

Class Representative

June 2024 – Present

Amrita Vishwa Vidyapeetham

Chennai, India

- Represented class interests, coordinated communications between faculty and students, and managed class-related responsibilities.
- Collaborated with various teams to successfully organize college fests, including both technical and cultural events.
- Worked closely with faculty and students to resolve issues and improve class engagement.

FACT Club Member

Fall 2023 – Present

Amrita Vishwa Vidyapeetham

Chennai, India

- Participated in FACT club initiatives to promote awareness and engage students in technology-focused activities and events.
- Contributed to organizing workshops and seminars aimed at enhancing technical skills and knowledge among members.

Hobbies

Interests: Traveling, Listening to Music, Photography and Sketching