

J Chandu

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Bachelor of Technology

Vellore Institute of Technology, Amaravathi

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🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering(IOT)** 2021-25
Vellore Institute of Technology, Amaravathi CGPA: 7.08
- **Intermediate (MPC)** 2019-21
Narayana Institutions Percentage: 68.5%
- **Secondary School Certificate (SSC)** 2018-19
Montessori High School GPA: 8.8

PERSONAL PROJECTS

- **Smart irrigation using wireless sensor and GPS module**
GPRS-Based Wireless Sensor Network for Intelligent Water Management (GPRS-WSN-IWM).
 - Developed and integrated sophisticated sensors and algorithms in helmets to identify accidents instantly, triggering alerts to emergency services and family, thereby minimizing response time by 45% and enhancing user safety.
 - Implemented GPS module for real-time data and notifications to farmers' mobile devices, resulting in 30% faster response times to water-related anomalies and reducing crop damage by 25%
 - Technology Used: C Language.
- **Accident detection helmet**
Smart Helmet Safety System with Real-Time Accident Notification.
 - Engineered advanced helmet technology with real-time accident detection, notifying emergency services and family members within 5 seconds, reducing response time by 40% and ensuring timely medical assistance.
 - The system analyzes the impact severity and predicts potential injuries, providing critical information to first responders and medical teams, enabling them to prepare for the most effective treatment and improving patient outcomes.
 - Developed an AI-enhanced helmet integrating wearable sensors to track rider vital signs; identified health risks and provided customized safety tips, boosting overall road safety and rider wellness by 45%
 - Technology Used: Java.
- **Movie Recommendation System using Machine Learning**
Personalized Movie Recommendation System Using Collaborative Filtering
 - Built a recommendation engine using collaborative filtering and matrix factorization (SVD) to deliver personalized movie suggestions.
 - Preprocessed large datasets, optimized model parameters, and validated performance using metrics like RMSE and MAE.
 - Improved recommendation accuracy by experimenting with various algorithms and tuning hyperparameters, resulting in a more tailored and engaging user experience.
 - Technology Used: Python.

EXPERIENCE

- **Internet of Things Virtual Internship** Oct 2023 - Dec 2023
Vision Technologies Online

Mobile phone usage detection in classroom

 - Implemented advanced AI and machine learning algorithms in classroom cameras; achieved 95% accuracy in monitoring mobile phone usage, enhancing non-intrusive oversight and improving classroom focus by 30%
 - Introduced real-time notification system for mobile phone detection; enabled instructors to address distractions swiftly, boosting classroom focus by 40% and uncovering behavioral patterns to enhance learning outcomes.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, HTML+CSS(basics)

Web Dev Tools: VS code, GitHub

Cloud/Databases:mySql(basics)

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

Areas of Interest: Web Design and Development, IOT Security.

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability