

Adavelli Rohan Reddy

COMPUTER SCIENCE UNDERGRADUATE

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Education

Vellore Institute of Technology

Chennai, Tamil Nadu

BTECH IN COMPUTER SCIENCE WITH SPECIALIZATION IN ARTIFICIAL INTELLIGENCE AND ROBOTICS, CGPA: 8.95

2020 - Present

FIITJEE Junior College

Hyderabad, Telangana

INTERMEDIATE IN MATHS, PHYSICS AND CHEMISTRY, PERCENTAGE: 97.6

2018 - 2020

Delhi Public School

Hyderabad, Telangana

CBSE BOARDS, PERCENTAGE: 87.3

2012 - 2018

Projects

Optimal Water Irrigation Model for Indian Topology Using ML

- Developed a cost-effective, accurate evapotranspiration estimation alternative: the modified Hargreaves model.
- Improved irrigation estimations by incorporating crop-specific calculations and evaluating performance using rigorous data analysis techniques
- Maximum accuracy of 96.96% was achieved.

Efficient Email Management with UiPath Automation Solutions

- Created an automated email processing system using UiPath and Python, incorporating NLP techniques for summarization, department classification, and spam detection with an observed accuracy of 80% for a small dataset.
- Implemented streamlined email forwarding and organized email management for enhanced efficiency.

Community Book House Centre

- Designed integrated library system in PHP, MySQL, CSS, HTML and Bootstrap, facilitating seamless book borrowing and promoting reading habits.
- Enabling users to borrow, return, and donate books while eliminating physical waste and time delays associated with manual processes.

Experience

Vellore Institute of Technology

Chennai, Tamil Nadu

RESEARCH INTERN

May 2022 - July 2022

- Acquired expertise in fundamental NLP concepts, including tokenization, transformers, and BERT.
- Worked on Developing an open-domain chatbot utilizing these NLP technologies for enhanced conversational capabilities.

Microsoft

ENGAGE 2022 MENTEE

April 2022 - May 2022

- Developed an innovative web application using Python, Flask, OpenCV, HTML, CSS, and JavaScript to assist the visually impaired.
- Collaborated closely with a Microsoft mentor, gaining valuable insights on industry practices, and received regular feedback from Microsoft employees to ensure project relevance and alignment with real-world applications.
- Achieved high accuracy of 91% in object detection and face recognition, creating an intuitive user interface for seamless navigation and interaction, resulting in positive user feedback.

Skills

Languages: Java, Python, C++, R, C, SQL, MATLAB, HTML, Assembly, CSS, ROS 1

Frameworks: OpenCV, Flask, TensorFlow, JDBC, JavaFX, BERT

Software: AWS, UIPath, Arduino, Tableau, IBM Watson

Certifications

AWS Certified Cloud Practitioner, AWS Academy Graduate, Artificial Intelligence Analyst (by IBM), Design Thinking - A Primer (by NPTEL), Embedded Hardware and Operating Systems (by Coursera)

Co-Curriculars

Vibrance

CORE COMMITTEE MEMBER

2023

- Contributed as a valuable member of the Facility and PAS team for the college's annual cultural fest, managing logistics for a significant footfall of 10,000 participants from 150 colleges nationwide.
- Successfully coordinated the procurement, organization, and distribution of equipment, materials, and supplies to cater to the diverse needs of various events, ensuring the seamless execution of the fest's activities.

Rotaract

CORE TEAM

2021-2022

- Contributed to a successful cancer awareness drive and blood donation camp in college, actively collaborating with club members, resulting in 300 units of blood collected and positive campus and community impact.