

M. Varun Reddy
Bachelor of Technology
Vellore Institute of Technology, Chennai

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GitHub Profile
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EDUCATION

- **Vellore Institute of Technology, Chennai** 2021-25
Bachelor of Technology in Computer Science with spl. in AI and Robotics CGPA: 8.52/10
- **DAV Public School, Bhubaneswar - Senior Secondary** 2021
Central Board of Secondary Education(C.B.S.E) Percentage: 95

PERSONAL PROJECTS

- **Deep-CNN based Captcha Solver**
A machine learning model using Deep Convolutional Networks to solve captchas
 - achieved an accuracy of 90 percent on the Test set, beating a less than 30 percent accuracy with Google Lens
 - trained the model using a dataset with captcha images with 5 characters
 - used data-generators to optimize memory usage and prevent crashes
 - Technology Used: Python, TensorFlow, Scikit-image, matplotlib, CNN, Keras, Pandas
- **RFID-Attendance system (fool-proof)**
An Arduino based RFID-tag attendance system with excel sheet database updation and email notification to the attendee
 - Used Py-serial, a python serial port library to interface the Serial port of a computer with the Arduino, so it can be controlled using a python script
 - Used Python libraries to update the attendance with a timestamp on an excel sheet database and also send the attendee an email regarding successful punching
 - Technology Used: C++, Python, PySerial, Excel, SMTP libraries in python, Arduino
- **Robotic Manipulator**
An Arduino based pick and place Robotic Arm controlled by a customised controller app
 - customised a controller app from the internet to control the robot motion
 - Technology used: Arduino, C++, Chat
- **Portfolio-website**
Simple portfolio website
 - Technology Used: HTML, CSS, Bootstrap, JavaScript
- **Digit Classifier Neural Network**
Neural network to classify digits from the famous MNIST dataset
 - Technology Used : Python, TensorFlow, Scikit-learn, Keras, matplotlib

NON ACADEMIC ACITVITIES

Club Curtain Raiser Silent Skit on Mental Health

- Played the character of a Father in a silent skit on mental health awareness
- Actively participated in the ideation and choreography of the skit
- Worked with a team of 10 .

Research paper [unpublished] on Protein Deficiency in the Indian Diet

- Conducted a survey with 500+ respondents.
- Wrote a research paper as part of my English coursework on the Indian diet and it's lack of protein, providing insights and raising awareness for a more healthy, pertinacious diet.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java, SQL, R, HTML+CSS

Libraries : C++ STL, Python: Tensorflow, Numpy, Pandas, Keras, Scikit-learn, Matplotlib, PIL

Dev Tools: VScode, Git, Github, Colab, Slack, Discord, Oracle DBMS, Microsoft Office, Jupyter Notebooks, Shell, Linux , Codepen

LeetCode: 60+ solved

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Computer Architecture and Organisation, Theory Of Computation, Differential Calculus, Integral and Vector Calculus, Complex Variables and Linear Algebra, Probability and Statistics, IOT, Sensors and Actuators, Robotics Kinematics and Dynamics,

Areas of Interest: Software Development, Web Development Machine Learning, Deep Learning, MLOps, Computer Vision, Image and Video Processing

Soft Skills: Problem Solving, Presentation, Creativity, Responsibiliy, Adaptability, Collaboration, Active Learning

Hobbies: Fish Keeping, Weight Lifting, Music, Good Food