

M. Varun Reddy

Bachelor of Technology

Vellore Institute of Technology, Chennai

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 GitHub Profile

 LinkedIn Profile

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 an Arduino Uno with and RFID tag sensor.
- 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

•Digit Classifier Neural Network

Neural network to classify digits from the famous MNIST dataset

- Trained the model on the MNIST dataset
- achieved accuracy of >90 percent on classification
- Technology Used : Python, TensorFlow, Scikit-learn, Keras, matplotlib

NON ACADEMIC ACTIVITIES

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 .
- Hands-on experience in cloud infrastructure provisioning, monitoring, and automation using AWS Management Console and AWS CLI.

Research paper on Protein Deficiency in the Indian Diet

- Conducted a survey with 500+ respondents.
- Wrote a research paper on Indian diet and it's lack of protein, raising awareness for a more healthy, proteinaceous 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

Problem Solving: LeetCode problems 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: Machine Learning, Deep Learning, Data Science, MLOps, Software Development, Computer Vision, Image Processing, Video Processing, Data Analytics

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

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