

Vihaan Sirupurapu

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EDUCATION

Vellore Institute of Technology

B.tech in Information Technology, GPA 8.54/10

National Public School , Yelahanka

House Vice Captain

Vellore, India

Aug. 2019 – Present

Bangalore, India

Jun 2017 – Apr 2019

WORK EXPERIENCE

Defence Research and Development Organization, India

June 2022 – July 2022

Summer Internship/Training

- Developed a software which creates a mission plan and flight path for a UAV
- Simulated a connection between the Ground Control Station and the UAV to access the UAV data and display it in a readable table and text file

Microsoft Technology Center

May 2021 – June 2021

Summer project

- Devised a deep learning CNN model which detects and identifies various leaf diseases
- Virtually deployed the model on *edge devices* such as Nvidia Jetson Nano and Raspberry pie using docker

Verzeo Edutech

May 2019 – June 2019

Machine learning summer intern

- Devised models using SVM and regression which predicted the cost of secondhand cars with an accuracy of 81%
- Recieved the Microsoft AEP certification for my work

PROJECTS

Leaf disease detection using Machine learning

May 2021

- Created a machine learning model to detect and identify the leaf disease with an accuracy of 89%.
- Used python, TensorFlow, Keras to create the model
- Learnt the concepts of image pre-processing , convolutional neural networks and project planning

Clubs On the Go

Sep 2020

- Created a system which matches college students with appropriate clubs based on their interests
- Designed the backend of the website using PHP and Apache and frontend using HTML and CSS
- Created back end databases, fetched data and wrote queries using MySQL

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++, C, Java, PHP (minimal proficiency)

Frameworks: AngularJS (minimal proficiency)

Course Proficiency : Data Structures, Algorithms, RDBMS, Discrete Mathematics, OOPs, Machine learning, Deep learning (minimal proficiency)

Libraries: JQuery, NumPy, Scikit, Pandas

Others: Unix command line, Git

CERTIFICATIONS

- **Microsoft Training Associate – Introduction to Python Programming, 2019.** Was awarded this certificate for establishing skills in basic Python programming
- **Microsoft Authorised Education Partner , 2019.** Was awarded this certificate for completing an internship on Machine Learning by Verzeo Edutech
- **Course completion certificate on Machine Learning by Coursera , 2019.** Was awarded this certificate for successfully completing Andrew Ng's machine learning course offered by Stanford University

OUTREACH

- **Socially Useful Productive Work(SUPW) , 2017.** Carried out social service by teaching basic reading and writing at a children's home