

# Dhanush Vasa

## Software Developer

Dhanush Vasa is a motivated and enthusiastic Software Developer, currently pursuing a Bachelor's degree in Information Technology from the Indian Institute of Information Technology (IIIT A) Allahabad. He is experienced in working with both backend and frontend technologies. He is an active member of different cultural clubs like Photography, NCC, and Media society and is a great team player. He is a quick learner and can work with new innovative technologies in the shortest possible time.

## Contact

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### GitHub

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## Languages

C

C++

Python

Java

## Database

MySQL

## Framework

Numpy

Sckit-learn

Django

Pandas

## Projects

### University Laboratory Reservation and Resource Distributions for Faculty (Availsys)

- Availsys is a web-based online booking system and reservation platform designed for scheduling and managing various labs and resources. Smart features included automating and reducing administrative involvement.
- The solution was built using the Django framework, MySQL Database, and HTML and CSS for frontend.

Tools and Technologies Used: [Django](#), [MySQL](#), [Python](#), [HTML](#)

### Stock Market Forcasting With Heterogeneous Data

- Heterogeneous data sentimental analysis from reputed social media platforms and news outlets' headline inputs were used to forecast the stock market volatility.
- Used LSTM and sentimental analysis as an influential features for predicting the stock prices and calculated the performance of our best result (with sentimental analysis).
- Used sentimental analysis and applying RMSE function error reduced by 43.86% and using MAE function to reduce error by 50.93% in contrast.

Tools and Technologies Used: [Python](#), [TensorFlow](#), [Beautiful Soup](#)

### Autonomously Solving Rubiks Cubes using Image-Analysis

- Detected Rubik's cube present state by using a webcam and removing unnecessary information (Image processing), detecting the true color representation of the cube.
- Applied Kociemba's algorithm to determine the most optimal steps of instructions to solve the cube in 20 or less moves.

Tool and Technologies Used: [OpenCV](#), [Numpy](#), [iMutils](#), [i18n](#), [Kociemba](#)

## Education

2019-Present

### Bachelors of Information Technology

3 years

Indian Institute of Information Technology Allahabad  
India  
CGPS: 8.27/10.00

2017-2019

### Andhra Pradesh Board of Intermediate Education

2 years

FIITJEE Vijayawada  
India  
CGPS: 9.17/10.00

2017-2019

### High School

2 years

Rossmoyne Senior High School  
Perth, Australia