

# M V Ashray Shravan

An ever-curious individual motivated to solve worlds most pressing problems using technology.

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## EDUCATION

### VNR Vignana Jyothi Institute of Engineering & Technology

Bachelor of Technology - Computer Science and Engineering; **CGPA: 9.0/10**

Oct 2022 - Present

### Narayana Group of Institutions: Class 12th Marks : 988/1000

June 2020 - June 2022

### Sacred Heart High School : Class 10th CGPA: 10/10

June 2010 - June 2020

## SKILL SUMMARY

**Programming Languages :** C,C++,Python,JavaScript,Java

**Software Development :** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs),SDLC

**Web Development :** HTML, CSS, Node.js, React, Redux,ExpressJS,TailwindCSS

**Machine Learning :** PyTorch,Sci-Kit Learn,OpenCV,NumPy,Pandas,Matplotlib

**DataBases :** MySql,MongoDB

**Version Control :** Git

**Non-Technical:** Leadership,communication and mathematics

## EXPERIENCE

### ARYASHU TECH

Jan 2023 - Present

#### Technical Head

- **SWEET** : DL-Based Waste Segregation System at point of collection

**Tech Stack :** PyTorch,OpenCV,NumPy,MongoDB,ExpressJS,ReactJS,NodeJS

- A product that specializes in establishing efficient waste segregation infrastructure at the point of collection, with the objective of doubling waste recycling quantities in India.
- Successfully deployed a lightweight Deep Learning based garbage classifier, achieving 90% test accuracy, utilizing PyTorch and OpenCV.
- Enhanced the classification model's accuracy by 10% through transfer learning, employing base models such as resnet50, EfficientNet, and InceptionV3.
- Architected the backend framework of the administrative website using the MERN stack.

🔗 Links to -> [Models](#) [Presentation](#) [Video](#)

- **ZOOP** : Web-Based ordering system for businesses in VNRVJET

**Tech Stack :** MongoDB,ExpressJS,ReactJS,NodeJS,API's,Razorpay,GoogleAuth,NodeMailer

- Established API endpoints to manage orders, payments, and user interactions like signin, signup, add-to-cart, edit cart, search, and filter options.
- Implemented Razorpay payment gateway for secure and efficient transactions.
- Incorporated a Nodemailer-based mail notification system to dispatch order QR codes to customers.

🔗 Links to -> [Frontend](#) [Backend](#)

## PROJECTS

- [!\[\]\(b7492e63f13d80b3a46b0c4d159e17d8\_img.jpg\) CaptionMe](#) : Transformer Based Image Captioner

- Implemented an image captioning system utilizing a Transformer from scratch. Created custom dataset using PyTorch. Used Tensorboard to monitor model statistics

- [!\[\]\(ae3e34fadd7f8d3ee511d6eba21454c6\_img.jpg\) BNSGPT](#) : Bharatiya Nyay Samhita Bot

- RAG based model to summarize relevant criminal sections applicable when description of crime is given.
- Used chromaDB as vector database, llama3.1 as summarizer and Fasttext to create embeddings

- [!\[\]\(af3d855ea318737836b0c1433b17b4fc\_img.jpg\) UREL](#) : URL Shortener Application

- Designed a URL Shortener application utilizing MongoDB, NodeJS, ExpressJS, and EJS to create and manage descriptive URLs for a specific peer group. Integrated a JWT-based login system and deployed the application on vercel.com.

- [!\[\]\(d4575add184b6ada36db56101a8ad88f\_img.jpg\) RPS](#) : A fun Rock-Paper-Scissors game

- Developed an engaging Rock-Paper-Scissors game with an autoplay feature using pure JavaScript. Deployed the application using GitHub Pages.

## ACHIEVEMENTS

### ❖ Samsung SFT 2024 Semi-Finalist

- Top 10 all over India and Top 2 in South India
- Attended Samsung Innovation Walk in SRI Bangalore, Delhi and pitched at FITT, IIT Delhi

### ❖ Hult Prize India National Finalists

- Shortlisted in top 70 teams among 14000 participants and attended Finals at IIT Bombay

### Campus Automation Contest Winners

- Secured 1st place for our idea Zoop and won a cash prize of Rs.30,000

### Designathon - National Level Hackathon

- Secured 3rd place
- Shortlisted among 432 teams all over the country

- **Rated 2 Star** at Codechef and solved 300+ problems at Leetcode
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## PATENTS & PUBLICATIONS

- ❖ **BSAVNN - Basis Scaling and Activation vectorised Neural Network**

- Published patent filed on Nov 29, 2024 with ref. 202441093399A in India.
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## VOLUNTEER EXPERIENCE

### MathViz : Data Visualisation WorkShop

- Volunteered to teach visualisation tools such as matplotlib and PowerBI

### Mathematics WorkShop

- Acted as a resource person to teach PCA (Principal component analysis) and SVD (Singular Value Decomposition)

### VJMUNSOC : Model United Nations

- Acted as the speaker and judge for AIPPM (All India Political Party Meet)