

M V Ashray Shravan

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

+91 9866393725 · ashuabc15@gmail.com · [in LinkedIn](#) · [git GitHub](#)

3-2-90 Mallapur, Hyderabad, Telangana 500076

EDUCATION

VNR Vignana Jyothi Institute of Engineering & Technology

Oct 2022 - Present

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

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

- **SWEEP :** 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 VNRVJIET

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

- [🔗](#) **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
- [🔗](#) **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
- [🔗](#) **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.
- [🔗](#) **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)