

T SAI SUSHANTH

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: 9.45/10	Oct 2022 - Present
Sri Chaithanya Junior College Class 12th Marks : 996/1000	2019 - 2021
Bhashyam High School Class 10th CGPA: 10/10	2019

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 Problem Solving

EXPERIENCE

ARYASHU TECH Co-Founder and Product Development Lead • SWEEP : DL-Based Waste Segregation System at point of collection Tech Stack : <i>PyTorch,OpenCV,NumPy,MongoDB,ExpressJS,ReactJS,NodeJS</i>	Oct 2023 - Present
<ul style="list-style-type: none">• An innovative product incubated by VJHUB that specializes in establishing efficient waste segregation infrastructure at the point of collection, with the objective of doubling waste recycling quantities.• A pending patent on the idea• Successfully deployed a lightweight Deep Learning based garbage classifier, achieving a remarkable 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.• Leveraged Google's Teachable Machine for rapid prototyping of the model.• Architected the backend framework of the administrative website using the MERN stack. •Integrated Google Maps API on admin website for vehicle tracking in real-time <p>🔗 Links to -> <u>Models Presentation</u></p> <ul style="list-style-type: none">• ZOOP : Web-Based ordering system for businesses in VNRVJIET Tech Stack : <i>MongoDB,ExpressJS,ReactJS,NodeJS,API's,Razorpay,GoogleAuth,NodeMailer</i><ul style="list-style-type: none">• Designed and developed interactive and user-friendly front-end interfaces using ReactJS, ensuring a seamless user experience.• Created responsive layouts and styled components for cross-device compatibility.• Built and optimized core features such as sign-in, sign-up, add-to-cart, edit cart, and real-time search with filtering options.• Designed the application's wireframes and prototypes using Figma, ensuring a visually appealing and intuitive user interface.• Collaborated with the back-end team to integrate APIs for dynamic data handling and ensured smooth client-server communication.• Contributed to the back-end by implementing API endpoints for specific features and assisting with debugging.• Focused on improving performance and usability by optimizing rendering techniques and managing	

- component state efficiently.
 - Conducted rigorous testing and debugging to identify and resolve front-end issues, ensuring a stable and functional application.
-  [Link to GITHUB -> **Frontend / Backend**](#)
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PROJECTS

Industry-Academia Portal: Curriculum Project

- Devised a solution to address our college problems of Connecting Industry and Students. This involved developing a user-friendly dashboard equipped with various filters including year, name, department, domain, and venue using technologies like ReactJS, NodeJS, MongoDB, and ExpressJS. Furthermore, I integrated a Nodemailer-based notification system and designed a data entry form to allow management to handle the information.
 - **BSAVNN: Encrypted AI using Basis Scaling and Activation Vectorized Linear Neural Network (Research Project yet to be published)**
 - Implemented a simple but effective method to encrypt data and machine learning models to prevent data leakages as part of research group.
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ACHIEVEMENTS

Campus Automation Contest Winners

- Secured 1st place and won a cash prize of Rs.30,000
- Hosted by VNRVJIET and GDSC- VNRVJIET

Patent Summit Winners

- Secured 1st place and won a cash prize of Rs.5000
- Hosted as part of TECNOVISTA-2k24 at VNRVJIET.

Ideathon Winners

- Secured 1st place
- Hosted by Dept of CSE and CSBS at VNRVJIET.

Design-a-thon - National Level Hackathon

- Secured 3rd place
- Shortlisted among 432 teams all over the country
- Hosted by Dept of CSE and CSBS at VNRVJIET.

Rated 2- Star in Codechef

VOLUNTEER EXPERIENCE

VJMUNSOC: Model United Nations

- Acted as the member of Organizing committee for VJMUNSOC at VNRVJIET

MathViz: Data Visualization Workshop

- Volunteered to teach visualization tools such as matplotlib and PowerBI

Student Alumni Relationship Club

- Acted as an active member and volunteer of SARC (Student Alumni Relationship Club) at VNRVJIET