

Yuvin Raja

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering

- Cumulative GPA: 9.25/10

Vellore, Tamil Nadu

Sept 2022 – Present

Delhi Public School Harni

Senior Secondary School (10+2)

- Percentage: 91.8%
- Study Area: Physics, Mathematics, Computer Science

Vadodara, Gujarat

Apr 2020 – Jun 2022

WORK EXPERIENCE

Web Development Intern

Tech Octanet Services Pvt. Ltd.

June 2024

- Developed an interactive and responsive web page using React and JavaScript, reducing page load time by 15% and improving user retention.
- Collaborated with designers and back-end developers to implement a user experience improvement strategy, leading to a 20% increase in user engagement and improved site navigation for over 1,200 monthly users.
- Utilized Chrome DevTools and Git to debug and optimize workflows, decreasing deployment time by 10%.

ORGANIZATIONS

Perceptions & Autonomous Developer

Team Ojas Racing

April 2024 - Present

- In charge of designing and developing object detection system for the Formula SAE electric race car, achieving 95% detection accuracy in controlled testing environments.
- Architected a robust pipeline using ROS2, enabling real-time communication between sensors and decision-making modules.

Core Committee Member

The VIT Quiz Club

March 2024 - Present

- Represented the university at IIT Madras' quiz competition, showcasing teamwork and critical thinking under pressure.
- Organized and marketed events for the university's technical fest, attracting over 500 participants and increasing club visibility by 20%.

PROJECTS

Forged Image Detector | *Streamlit, Keras, Hugging Face, OpenCV, NumPy, PIL*

December 2024

- Developed and trained a custom CNN model for detecting tampered images using the CASIA2 dataset, achieving 93.61% accuracy and 92.20% validation accuracy.
- Implemented Error Level Analysis (ELA) to enhance image forgery detection before classification.
- Designed a deep learning pipeline with data augmentation, image preprocessing, and denoising techniques.
- Built and deployed the application using Streamlit for image uploads, ELA processing, and real-time classification with confidence scores.
- Deployed the model using Hugging Face Hub, allowing seamless downloads in the app.

Tax Invoice Generator | *HTML, CSS, JavaScript, jQuery, Bootstrap, Git*

July 2024

- Engineered a fully responsive web application that automated the generation and printing of tax invoices for a startup, decreasing manual processing time by 60 hours monthly through efficient workflow integration.
- Implemented dynamic form validation to ensure accuracy and security of financial data
- Integrated functionality to export invoices as PDF files for seamless distribution and record-keeping
- Collaborated with the startup's team to tailor the solution to specific business requirements, reducing invoice processing time by 50%

- Designed a responsive front-end website enabling users to seamlessly add new events or modify existing ones while enhancing usability
- Implemented a live countdown feature using JavaScript to notify users of upcoming events, improving event participation by 25%

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, TypeScript

Developer Tools: MySQL, SQLPlus with Oracle Database, Git/GitHub, Visual Studio, Postman, Docker

Libraries: Pandas, NumPy, Matplotlib, Keras

Relevant Coursework: AWS Solutions Architect, Advanced Data Structures and Algorithms, Object Oriented Programming, Artificial Intelligence (AI), Computer Networks, Operating Systems

ACHIEVEMENTS

- Secured **26,201 AIR** in **JEE Advanced** 2022, among over 40,000 qualified candidates.
- Secured **90 percentile** (All India) in **JEE Main** 2022, placing in the top 27% nationwide.
- Awarded a merit-based scholarship for outstanding performance in **NTSE Stage 2**.
- Participated and excelled in national-level mathematics and computer science Olympiads, ranking in the **top 10%** of participants.
- Solved over **150 data structures and algorithms challenges** on LeetCode, Codeforces and CodeChef, improving problem-solving and coding proficiency.