

Harshit Harlalka

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EDUCATION

SRM Institute of Science and Technology

Bachelor of Science and Technology

Chennai, TamilNadu

June 2023 - May 2027

EXPERIENCE

SRM EEE Labs

SRM Institute of Science and Technology

March-2024 – July-2024

Chennai, TamilNadu

- Developed a FullStack virtual laboratory platform for the Electrical Engineering Department, embedding a circuit simulator with Logic Gates (AND, OR, NOT).
- Firebase to store user data, enabling efficient management for over 200 users.

ViroVision

Teachnook in Collaboration with Cognizance, IIT Roorkee

June-2024 – July-2024

Kolkata, West Bengal

- Designed a COVID-19 detection website, allowing users to upload X-rays and receive diagnostic results with 95 percent accuracy.
- Utilized transfer learning techniques with pre-trained models (ResNet, VGG-16) to enhance detection efficiency by 40 percent.
- Integrated the machine learning model with a Flask-based web interface, achieving a user satisfaction rate of 90 percent.

DiagnoseDoc

SRM Institute of Science and Technology

August-2023 – September-2023

Chennai, TamilNadu

- Developed a healthcare website that integrates machine learning models, including VGG-16 with transfer learning, to detect health issues such as COVID-19, colon cancer, and tuberculosis.
- Achieved a detection accuracy of 99 percent by utilizing advanced image recognition techniques.
- The website provides users with WHO-approved diet plans, yoga routines, and remedies tailored to specific diseases, ensuring reliable health guidance.
- Delivered a user-friendly interface that simplifies health monitoring for 90 percent users, enhancing early diagnosis and preventive care.

PROJECTS

TollMate | *Python, Flask,*

June 2024 – Present

- Engineered a web application with Flask, delivering a REST API supporting over 500 concurrent users.
- Simulated a GPS-Based Toll System, processing over 1,000 toll calculations daily using Python, Flask, and Google Cloud Console.
- Developed an algorithm for distance-based toll calculation, improving pricing accuracy by 30 percent.
- Integrated Google Maps via Google Cloud Console's Directions API, enhancing user navigation experience by 25 percent.
- Implemented user data management with Numpy and Pandas, optimizing data handling speed by 20 percent.
- Provided a structured transaction history display, reducing user query time by 15 percent.

JavaBite | *Java*

June 2024 - present

- Built a Restaurant Management System with multilingual support, increasing user accessibility by 40 percent.
- Implemented real-time bill generation, reducing cashier discrepancies by 35 percent.

Portfolio Website | *HTML, CSS, Javascript, ReactJs*

June 2024 - present

- Created a personal portfolio website with a responsive design, achieving a 98 percent mobile compatibility rate.
- Showcased projects and skills, attracting over 500 unique visitors within the first month.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Tailwind CSS, Typescript

Frameworks: React, Node.js, Flask, MongoDB

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

Libraries: Pandas, NumPy, Matplotlib