

Sanskriti Khandelwal

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EDUCATION

Vellore Institute of Technology (VIT), Bhopal

2024 – Present

B.Tech in Computer Science and Engineering

CGPA: 9.11/10.0

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Probability & Statistics, Linear Algebra

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript, SQL

Enterprise & Automation: ServiceNow (Flow Designer)

Systems & Backend: REST APIs, Role-Based Access Control, Flask, Node.js, SQLAlchemy

Frontend: React.js, HTML5, CSS3, Tailwind CSS

Databases: MySQL, SQLAlchemy

ML & Data: TensorFlow/Keras, Scikit-learn, NumPy, Pandas, CNN architectures, Transfer Learning

Tools: Git, GitHub, VS Code

Problem Solving: 300+ problems solved across LeetCode, CodeChef, and GeeksforGeeks; 50+ day LeetCode streak; actively solving Striver's A2Z DSA sheet

PROJECTS

AWARE – AI Waste Classification System | *Python, TensorFlow/Keras, Flask, MySQL, React.js*

[Code](#)

- Built a CNN-based image classification model on TrashNet dataset (2,527 images, 6 waste categories); achieved 67 % test accuracy with a custom 3-layer CNN, with scope for improvement via transfer learning.
- Preprocessed image data using NumPy and Pandas; trained and evaluated model using TensorFlow with metrics including accuracy, precision, and recall.
- Integrated trained ML pipeline with Flask backend enabling real-time inference and automated sustainability recommendations based on classification output.

Smart Healthcare Web Platform | *React.js, TypeScript, Flask, SQLAlchemy, JWT*

[Code](#)

- Engineered a full-stack platform for symptom triage, appointment booking, and hospital discovery, with a rule-based engine classifying symptom severity across care pathways.
- Built a secure multi-role REST API using JWT authentication and role-based access control (RBAC) to enforce data isolation between patients, doctors, and admins.
- Applied TypeScript across 15+ frontend components to enforce interface contracts and catch type errors at compile time.

CineScope – Movie Discovery Platform | *React.js, Tailwind CSS, REST APIs*

[Code](#)

- Built a responsive movie discovery platform consuming external REST APIs; architected component tree to minimize redundant re-renders via memoization and optimized routing.
- Implemented search with debounce logic and a client-side watchlist feature using efficient local state management, delivering sub-200ms UI response for typical interactions.

Portfolio Website | *HTML5, Tailwind CSS, JavaScript, EmailJS*

[View](#)

- Designed and deployed a mobile-first portfolio; integrated EmailJS for serverless client-side email delivery with real-time form validation, eliminating backend infrastructure for contact flow.

CGPA Analyzer | *JavaScript, PHP*

[Code](#)

- Built a web tool to compute, track, and project academic performance with data visualization for semester-wise trends.

EXPERIENCE

Virtual Internship Trainee

May 2026

ServiceNow × SmartBridge × AICTE

- Completed hands-on training in ServiceNow workflow automation and Flow Designer; explored Agentic AI integration patterns within enterprise service management systems.

Open Source Contributor

May 2026 – Present

GirlScript Summer of Code (GSSoC)

- Contributed frontend features and bug fixes across 4+ repositories (React, Node.js, MERN stack) via structured pull request workflows; worked with maintainers through code review cycles.
- Resolved UI rendering issues and improved component modularity in production-facing open source projects with active user bases.

CERTIFICATIONS

Machine Learning with Python – IBM | Deloitte Data Analytics Virtual Experience – Forage | SQL and Relational Databases – IBM | React JS – Scaler HackerRank C++ (Gold Badge) | 50 days badges in Leetcode | Introduction to Machine Learning Concepts - Microsoft Learning | Introduction to Natural Language Processing Concepts - Microsoft Learning