

Sania Jain

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EDUCATION

VIT Bhopal University | *Bachelor of Technology in Computer Science*

September 2022 – Present

- CGPA: 8.15/10
- Coursework: Operating System, Data Structures and Algorithms, Computer Networks, Object Oriented Programming, Discrete Mathematics, Database Management Systems, Machine Learning, Probability, Parallel & Distributed Computing, AWS Cloud Practitioner

Sanskaar Valley School | *Higher Secondary Certificate*

March 2021 - July 2022

- 10th Percentage: 95%
- 12th Percentage: 90.8%

EXPERIENCE

DRDO – Solid State Physics Laboratory (SSPL), Ministry of Defence, Govt. of India | *Intern*

May 2025 – June 2025

- Developed an Employee Information System using .NET Core and C# with RESTful API architecture and SQL database to integrate with the existing DRDO SSPL website.
- Enforced JWT token-based authentication, secure data handling, and user role management for over 300 employees and reduced manual processing time by 60% with responsive front-end interfaces through AngularJS front-end interfaces.

Liznr | *Software engineering intern*

November 2024 – January 2025

- Machine learning models engineered to improve query understanding through prompt engineering, increasing user satisfaction rates by 20% (**Python, Django**).
- Engineered and deployed React-based user interfaces, enhanced user experience scores by 10%.
- Participated in daily Scrum demonstrations and managed project workflows through **JIRA**, collaborating with cross-functional teams.

PUBLICATIONS

A hybrid CNN-SVM model optimized with PSO for accurate and non-invasive brain tumor classification

February 2025

Neural Computing and Applications (NCAA) NCAA-D-24-06563R1

PROJECTS

EchoSend – voice-controlled email sending functionality

Python

- Devised a speech-enabled email sender in Python using `speech_recognition`, `pyttsx3`, and `smtplib`, automating end-to-end email composition and dispatch through microphone input and real-time text-to-speech prompts.
- Integrated secure Gmail SMTP login with TLS encryption and implemented contact matching via dictionary lookup, enabling accurate email delivery with a 70%+ command recognition success rate in testing across 10+ runs.

AI-Powered Real-Time Pose Classification System

Python

- Implemented a Flask-based web application using Python that classifies human poses in real-time with 85%+ accuracy, leveraging **OpenCV**, **MediaPipe**, and an ensemble ML model (**Random Forest**, **KNN**, **Decision Trees**).
- Optimized real-time processing with adaptive histogram equalization and landmark extraction, delivering seamless visual feedback through a Flask-based web interface for intuitive user interaction.

VITours – VIT Bhopal University campus virtual tour

JavaScript, HTML, A-Frame

- Tailored interactive VR experience using equirectangular images using A-Frame, increasing ease in campus navigation by 25%.
- Integrated 360 ° intuitive navigation through scene transition triggers, reducing user interaction time by 20% while showcasing 15+ campus facilities.

TECHNOLOGIES

Languages: Python, C++, C, HTML, JavaScript, CSS, JAVA, SQL, C #, .NET core, Go, AngularJS.

Frameworks & Technologies: Django, Flask, Figma, AWS technologies, GIT, JIRA.

EXTRA CURRICULAR ACTIVITIES & LEADERSHIP

- Awarded 2nd Runner-up at **IEEE ideathon** and 1st Runner-up at **Notion community startup competition** for pitching FixNix, an on-demand phone repair platform featuring fixed-price guarantees and temporary replacement devices. (2024)
- As **Women Techmakers Lead** at GDSC VIT Bhopal: organized 3 tech events (100+ attendees each), published a Medium article on Agentic AI systems, and led development of a women's healthcare web app addressing gender-specific health challenges. (2025)

CERTIFICATIONS

- Neural Networks and Deep Learning | DeepLearning.ai
- Akuna Capital Options 101