Sania Jain

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Education

VIT Bhopal University Expected graduation date: Aug. 2026
Bachelor of Technology in Computer Science *GPA: 8.26/10*
Relevant Courses: Operating Systems, Data Structures and Algorithms (C++), Object Oriented Programming (C++), Computer Network, Discrete Mathematics, Database Management Systems, Machine Learning, Probability, Parallel & Distributed Computing, AWS Cloud Practitioner, Design and analysis of algorithms

The Sanskaar Valley School Mar. 2021 - Jul. 2022
12th *Percentage: 91%*

The Sanskaar Valley School Mar. 2019 - Jul. 2020
10th *Percentage: 95%*

Experience

Defence Research and Development Organisation May 2025 - Jun. 2025
Summer trainee *Bash, MySQL, .NET, AngularJS, Git, GitHub*

- 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 Nov. 2024 - Jan. 2025
Software Engineering Intern *Python, React, Github, Git, JIRA*

- Machine learning models engineered to improve query understanding through prompt engineering, increasing user satisfaction rates by 20%.
- 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.

Projects

JPMorgan Chase Investment Banking Job Simulation on Forage Jul. 2025
Discounted cash flow modeling *Excel*

- Identified an ideal M&A target for a client based on an assessment of their strategic and financial criteria.
- Constructed a DCF model to calculate the valuation of the M&A target and adjusted the model to account for a competitor bid and supply chain interruption.
- Created a 2-pager for the client containing a company profile and summary of the auction process.

Modeling VaR using Monte-Carlo Simulations Feb. 2025
VaR simulation and backtesting using Kupiec's test *Excel*

- Implemented Monte Carlo simulations to model portfolio Value-at-Risk (VaR), backtested via Kupiec's test, achieving 95.2% coverage at 99% confidence with statistically significant p-values ($p > 0.05$).

AHybrid ML-DL architecture for accurate and non-invasive brain tumor classification Feb. 2025
Neural Computing and Applications *Python*

- Developed a hybrid CNN-SVM model optimized via Particle Swarm Optimization (PSO) for MRI-based brain tumor classification, achieving 84.77% accuracy, a macro-average F1 score of 0.80, and 0.91 precision across four tumor categories (glioma, meningioma, pituitary, no tumor).
- Enabled reliable non-invasive diagnosis by improving classification robustness, supporting early detection and treatment planning while minimizing reliance on invasive surgical biopsies.

VITours   Sep. 2023
VIT Bhopal University campus virtual tour   *JavaScript, HTML, A-frame, Git*

- 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.

EchoSend   Mar. 2022
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.

Leadership

Google Developer Groups on Campus   Oct. 2024 - Ongoing
Women Techmaker's Lead

- Guiding a community of 100+ CS women students in their professional development, technical skills, and interest in tech.
- Orchestrating workshops and events to enhance skills and encourage continuous learning.

English Literary Club   Nov. 2024 - Ongoing
Organizing Committee

- Led content creation and discussions as an active member of the English Literary Club, organizing 10+ poetry recitations, debates, and creative writing workshops to foster literary appreciation among 50+ students.

Skills

Languages:
Python, C++, SQL, HTML, JavaScript, Bash, Go, C#, .NET, CSS

Technologies & Tools:
Flask, Django, Git, JIRA, Figma, AWS

Certifications:
Neural Networks and Deep Learning, Akuna Capital Options 101, Bits and bytes of computer networking.

Achievements:
2nd runner-up at IEEE Ideathon, 1st runner-up at the Notion community startup idea.