SANIA JAIN

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ABOUT ME

Final-year CS student with experience building software in Python and C++. Passionate about writing efficient code and eager to master large-scale system design to make a real world impact.

EXPERIENCE

SDE Summer trainee · May 2025 - Jun 2025
Defence Research and Development Organisation · *New Delhi*

- Developed and deployed **scalable** Employee Information System using **RESTful APIs in .NET Core (C#)**, automating data workflows and reducing manual processing time by 60%, saving 4+ hours weekly.
- Enforced **JWT** token-based authentication, secure data handling, and user role management for 300+ employees and reduced manual processing time by 60% with responsive front-end interfaces through **AngularJS** front-end interfaces.

ML intern · Nov 2024 - Jan 2025
Liznr · *Bhopal, Madhya pradesh*

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

PROJECTS

AI-powered real-time yoga pose classification

- Developed 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.
- 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.

Churn Prediction with Time-to-Event Modeling — BCG Data science Simulation Extension

- Developed a time-to-event churn prediction model using Survival Analysis (Cox Proportional Hazard) achieving 83% accuracy, 0.47 Brier Score and 0.72 C-index, shifting from binary classification to a time-dependent framework to pinpoint optimal intervention timing.
- Engineered a **scalable ML pipeline** with **XGBoost**, Streamlit, and SHAP, automating **preprocessing** and daily inference for **5,000+** customer records.
- Enhanced model transparency by integrating SHAP explainability, enabling business teams to identify key behavioral drivers of attrition such as night calls and evening usage.

TATA iQ GenAI based Predictive Credit risk modeling

- Improved delinquency prediction accuracy by identifying high-risk segments and addressing data gaps through **SQL** based **exploratory data analysis** on 500+ customer records.
- Designed an autonomous AI-powered collections system projected to reduce 30+ day delinquency rates by 15% that enhanced operational efficiency.
- Developed and presented AI-powered predictive models (logistic regression, decision trees) to assess credit delinquency risk, ensuring compliance and fairness through regular bias audits.

EDUCATION

Bachelor of Technology(Computer science), VIT Bhopal University · Oct 2022 - Jul 2026(Expected)
CGPA: 8.26/10

Relevant Coursework: Operating System, Data Structures and Algorithms, Computer Networks, Object Oriented Programming, Database Management Systems, Machine Learning, Software Engineering, Parallel & Distributed Computing, AWS Cloud Practitioner

SKILLS

Technical Skills Python, HTML, Go, CSS, Javascript, SQL, Git, GitHub, AWS, C/C++, Google Colab, Flask

CERTIFICATIONS & TRAINING

Google Data Analytics Professional Certificate

- Executed SQL queries (MySQL, MS SQL) in **BigQuery** and built **Tableau** dashboards on large datasets of up to **millions of rows**, improving data accessibility and enabling 50% faster management decisions.

Neural Networks and Deep Learning by DeepLearning.ai

PwC Salesforce CTDP 3.0 training

- Completed 50+ Salesforce Trailhead badges in data modeling, AI/ML, and Lightning Web Components, gaining practical skills in software development, automation, and scalable application design.

LEADERSHIP

- Organized 3+ technical events fostering an inclusive developer community, engaging 300+ participants, and coordinating cross-functional event logistics.
- Awarded 2nd Runner-up at IEEE Ideathon and 1st Runner-up at Notion Startup Competition for a **scalable** phone repair concept, gained hands-on experience in strategic planning and innovation.