Sania Jain

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EXPERIENCE

DRDO – Ministry of Defence, Govt. of India| *SDE Intern* — May 2025 – June 2025

- Developed an Employee Information System web app using **.NET Core and C# with RESTful API** architecture and SQL database to integrate with the existing DRDO SSPL website.
- Implemented 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.

Liznr| *ML intern* — November 2024 – January 2025

- Engineered machine learning models to enhance query understanding, boosting user satisfaction rates by 20% **(Python, Django)**.
- Integrated ML solutions with **React** interfaces using **prompt engineering** to enhance user interaction.
- Participated in daily **Scrum demonstrations** and managed project workflows through **JIRA**, collaborating with cross-functional teams to align development goals.

TECHNOLOGIES

Languages: Python, C++, C, SQL, JAVA

Frameworks & Technologies: Figma, AWS, JIRA, Advanced Excel, Power BI, Git, Github, Rest API

PROJECTS

AI-POWERED REAL-TIME POSE CLASSIFICATION SYSTEM | *ML* — **Python, OpenCV**

- 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 (**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 | *Frontend* — 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.

Modeling VaR using Monte-Carlo Simulations — 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 ($p > 0.05$).

CHURN PREDICTION WITH XGBOOST TIME-TO-EVENT MODELING | *ML* — **Python, Streamlit**

- 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** (survival:cox), 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.

EDUCATION

Vellore Institute of technology, Bhopal| *Bachelor of Technology in Computer Science* — September 2022 – Present

- CGPA: 8.26/10

Sanskaar Valley School| *Higher Secondary Certificate* — March 2021 - July 2022

- Percentage 12th(90.8%) , 10th(95%)

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

- Google Data analytics professional certificate | *IBM (Coursera Google)*.
- Neural Networks and Deep Learning | *DeepLearning.AI (Coursera)*