



Srishti Garg

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Education

IIIT Lucknow Master of Data Science	Expected Graduation: 2026 CGPA: 8.9
Daulat Ram College, Delhi University B.Sc. in Mathematics	Graduated: 2023 CGPA: 8.122

Internships

Data Science Intern, Climate Resilience Observatory (CRO), UP Government	Sept 2024 - June 2024
<ul style="list-style-type: none">Flood Prediction Project: Spearheaded the creation of ML flood forecasting models with the CRO team, achieving a peak accuracy of 77% using XGBoost for locations along the Ghaghra, Rapti, Saryu, and Gandhak rivers. Addressed data quality issues by translating Hindi datasets and implemented SMOTE to tackle class imbalance to predict inundations using flood level data.UP Lightning Tracker: Real-time Monitoring and Future Prediction System: Designed an automated data pipeline for real-time lightning strike monitoring, extracting JSON data via Python, storing in SQL Server, and visualizing with Folium and Plotly. Enabled data-driven insights into lightning patterns, supporting the CRO's goal of an 8-minute lightning alert system and significant fatality reduction	
Data Science Intern, Dawaa Dost	June - August 2024
<ul style="list-style-type: none">Optimized Inventory: Analyzed 79+ CSVs, optimized stock (20-30% reduction in stockouts).Customer Insights: Analyzed 79+ datasets, identified top 2.5K customers using sales, recency, and engagement metrics.Cohort Analysis & Retention: Segmented 10M+ customers into cohorts, analyzed 5-year retention, and identified 20%+ drop-offs using SQL, R, and data visualization.Web Scraping & Automation: Extracted structured data via Selenium & Python, refined JSON files, and converted data into PDF reports for seamless documentation.	

Academic Projects

LSTM Next Word Prediction System	🐙
Tech Stack: TensorFlow (2.15.0), LSTM, Pandas, NumPy, scikit-learn, TensorBoard, Matplotlib, Streamlit, scikeras, Pickle	
<ul style="list-style-type: none">Developed LSTM model for next-word prediction using 30,000+ words and 10,000+ training sequencesBuilt end-to-end ETL pipeline for data cleaning, NLP tokenization, and feature extractionImplemented MLOps practices: Early stopping, model checkpointing (.h5), and tokenizer serialization (.pickle)Deployed Streamlit web app with sub-second inference and TensorBoard visualization	
Remote Sensing Data Analysis with STAC API	🐙
<ul style="list-style-type: none">Conducted an in-depth analysis of Landsat satellite imagery using the STAC API.Automated selection of high-quality satellite images with less than 10% cloud cover.Used Python libraries like Rasterio and Geopandas to generate insights into land use and environmental patterns.	
Drowsiness Detection System	🐙
Tech Stack: Deep Learning, YOLO, OpenCV, dlib	
<ul style="list-style-type: none">Designed and implemented a drowsiness detection system using YOLO, OpenCV, and dlib.Achieved 94% training accuracy, 0.97 precision, and 0.975 recall.Developed logic to differentiate between blinking and closing eyes for real-time drowsiness alerts.Compared YOLO with traditional computer vision methods and documented results.Implemented alert system using the mixer library.	

Volunteer Experience

SEEDS NGO	Sep 2024 - Apr 2025
Tech Stack: Python, Pandas, SQL, Power BI	
<ul style="list-style-type: none">Automated data cleaning and preprocessing workflows, including normalization and validation for disaster relief datasets.Built interactive dashboards in Power BI for real-time insights.Applied statistical analysis to support data-driven decision-making.	

Position of Responsibility

Placement Coordinator, MSc Data Science
Organized placement drives, coordinated with recruiters, and guided students, demonstrating strong leadership and communication skills.

Certifications

JAM (AIR 754), Udemy Python, Coursera Data Analytics, R Programming A-Z, Math Summer Program IIITD

Skills

Technical Skills	
<ul style="list-style-type: none">Programming: Python, R, SQL, C, HTML, LaTeXData Science: ML, NLP, Deep Learning, Predictive Modeling, Web ScrapingSurvey & Field: CAPI tools, Data Quality (MoSPI), Field Ops, Tech TroubleshootingReporting & BI: Report Writing, Dashboarding (Power BI,	<ul style="list-style-type: none">Tableau), Data Viz, ExcelCloud & Big Data: AWS, Azure, Spark, Hadoop, Hive, Airflow, Docker, ETLDatabases: MySQL, MS SQL ServerTools: Jupyter, MLFlow, Git, VS Code, Flask, Mathematica

Leadership and Soft Skills:

Joint Secretary, BSc Mathematics Dept, Vice Head, Finance & Investment Cell, Research Team Member, Vaarta Club, Teaching Assistant