

Shreya Sharma

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EDUCATION

Master of Science (MS) in Computer Science <i>University of Massachusetts – Amherst</i> Relevant Courses: Systems for Data Science, Information Retrieval, Statistical Computing	Sept 2025 – Sept 2027 Amherst, MA, USA
B.Tech in Computer Science and Engineering <i>Manipal Institute of Technology</i> Minor: Computer Graphics and Visualization CGPA: 8.69/10 (Equivalent 3.7/4) Relevant Courses: Engineering Mathematics, Distributed Systems, Computer Vision, Digital Image Processing, Augmented & Virtual Reality (AR/VR), Multimedia Technologies, Software Testing and Analysis, Human-Computer Interface	Aug 2019 – Jul 2023 Manipal, KA, India

EXPERIENCE

Juniper Networks Software Engineer I & II	Bangalore, KA, India Aug 2023 – Aug 2025
<ul style="list-style-type: none">Contributed to Juniper Mist's cloud-scale RRM (Radio Resource Management) system through anomaly detection and continuous iteration, detecting any issues in the channel, band, bandwidth assignment to access points (APs) across global deployments.Expanded anomaly detection with new outlier checks on RRM and AP behavior, improving visibility into poor channels and faulty APs.Integrated a Slackbot with Apache Storm topologies to deliver live anomaly spike alerts, giving QA and engineering teams instant visibility.Built Elasticsearch dashboards for live anomaly trends, supporting faster root-cause analysis by QA and development teams.Applied statistical and probabilistic modeling on ~1 M+ AP time-series records to analyze interference, utilization, and firmware stability.	
Juniper Networks Software Engineer Intern	Bangalore, KA, India Jan 2023 – Jun 2023
<ul style="list-style-type: none">Designed an AP system-panic and reboot-anomaly framework using exploratory data analysis and LSTM-based (Long Short-Term Memory) modeling to uncover low-memory and firmware-related failures.Automated monthly reporting in Pandas and PySpark with dashboards summarizing firmware-reboot trends, later scheduled via Airflow and EMR pipelines.	
Andritz Software Development Intern	Bangalore, KA, India Jun 2022 – Jul 2022
<ul style="list-style-type: none">Developed a multithreaded TCP/IP client-server system in C++ for reliable machine-controller communication.Improved uptime via START/STOP controls, periodic pings, and automated reconnects under concurrent connections.Created dashboards using C#, AJAX, and C3.js for real-time visualization of test performance and diagnostics.	
Nebula Cloud Solutions Remote Data Analyst	Skopje, North Macedonia Jul 2021 – Aug 2021
<ul style="list-style-type: none">Collected and cleaned multi-year weather and pollution datasets using Python, Selenium, and Requests, producing structured time-series data.Built visualizations with Tableau, Plotly, and Seaborn to reveal seasonal pollution trends for city-level planning and reporting.	

PROJECTS

Impact of Gamification on Online Learning Systems <ul style="list-style-type: none">Designed a structural equation model to study the effect of gamification on self-learning outcomes.Conducted empirical analysis using Duolingo and Google Forms.Research project under Pranav S. Joshi (Assistant Professor) with Aditya Gunturu and Akshat Taneja.
Material Image Classification & Recyclability Prediction <ul style="list-style-type: none">Developed a recyclable material classifier using OpenCV preprocessing and trained a CNN (TensorFlow) model to predict recyclability.
Customer Feedback Sentiment Analyzer <ul style="list-style-type: none">Built NLP pipelines using TF-IDF and LLM-based models to analyze product review sentiment and summarize customer insights.

TECHNICAL SKILLS

Programming: Python, C++, Java, SQL, HTML/CSS, C++, C#, JavaScript
Data & ML: PySpark, TensorFlow, scikit-learn, LSTM models, Statistical & Probabilistic Modeling, Anomaly Detection
Cloud & Big Data: AWS (EMR, S3), Google Cloud Platform, Apache Storm, Apache Kafka, Apache Airflow, Redis, Elasticsearch
Visualization & Reporting: Tableau, Plotly, Matplotlib, Seaborn, c3.js, AJAX dashboards, Confluence reports
Tools & Other: Selenium, OpenCV, Slackbot API, Git, Blender 3D, Unity Engine, Jira