

MITUL SRIVASTAVA

Data Scientist

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Summary

Data Scientist with proven experience in turning data into impactful business insights. Strong analytical acumen and attention to detail with a focus on accuracy, efficiency, and strategic decision support. Dedicated to continuous improvement through evidence-based analysis.

Experience

Advanced Associate - Data Analytics , <i>EY Global Delivery Services</i>	07/2023 – 08/2024 Noida
<ul style="list-style-type: none">Improved audit data accuracy and reduced review time by validating, reconciling, and analyzing large financial datasets across global engagements using Alteryx workflows.Delivered utilization and productivity insights that supported optimized resource allocation and improved chargeability tracking.Streamlined documentation and reporting workflows, cutting turnaround time by 10%.Resolved client data inconsistencies and delivered audit-ready analytical outputs for US engagements.Mentored new analysts to raise data validation quality and accelerate onboarding.	
Data Analyst , <i>Alchemy Techsol (deputed to EY GDS)</i>	06/2022 – 02/2023 Gurgaon
<ul style="list-style-type: none">Automated data preparation for financial audits using Alteryx, reducing manual effort by ~25% through standardized workflows.Built and maintained Alteryx workflows to extract, clean, and transform ERP financial data for audit testing.Strengthened reconciliation and exception testing processes to ensure accuracy of GL, sub-ledger, and payroll data.Delivered dashboards and reports that enabled faster anomaly detection and evidence-based audit conclusions.	

Education

MSc: Data Science , <i>South East Technological University</i>	09/2024 – 10/2025
Recipient - Government of Ireland International Education Scholarship (GOI-IES)	Ireland
B.Tech: Mechanical and Automation , <i>Guru Gobind Singh Indraprastha University</i>	08/2017 – 08/2021
Recipient - Academic Excellence Award	Greater Noida

Technical Skills

Core Skills

Data analysis, data cleaning, data visualization, statistical analysis, predictive modeling, reporting, business insights

Languages

Python, R, SQL

Visualization

Power BI, Excel

Tools

Alteryx, MS Office, Docker

Databases

PostgreSQL, MySQL, MongoDB

Libraries & Frameworks

NumPy, Pandas, scikit-learn, TensorFlow

Cloud

Google Cloud Platform (GCP)

Certification

Alteryx Designer core

PROJECTS

Machine Learning Algorithms Repository

- Evaluated 13 models (regression, classification, clustering, deep learning) to address varied prediction and segmentation problems.
- Achieved 5-10% performance gains via hyperparameter tuning, regularization, and feature selection.
- Deployed a logistic regression model on Hugging Face Spaces for real-time inference.

AI-Powered Chatbot for Mental Health Support

- Fine-tuned a conversational model for empathetic, context-aware dialogue and implemented safety/preprocessing pipelines.
- Integrated sentiment detection, CBT-inspired response strategies, and a RAG knowledge layer for informed replies.
- Added voice I/O and validated responses using perplexity and semantic diversity metrics.

Big Data Architecture with Docker & Kafka

- Built a containerized streaming pipeline (Docker + Kafka) simulating data every 2 seconds; automated ingestion via Python.
- Stored processed data in PostgreSQL and surfaced insights through Power BI dashboards for real-time monitoring.
- Implemented automated backups to ensure data reliability.

AGI Research Analysis

- Analyzed hardware, data generation, investment, and research publication trends using R, revealing a 337% rise in GPU performance, 1200% surge in global data, and 1814% growth in AI investments over the decade.
- Web-scraped 500+ AGI-related papers from arXiv, processed and visualized submission trends showing a 1500% increase in AGI research output from 2013 to 2023.
- Combined multi-source datasets and created reproducible visualizations linking compute, data, and funding growth to AGI research acceleration.

Earthquake Data Analysis Dashboard

- Processed and cleaned 5,900+ USGS earthquake records using Python (Pandas) to uncover trends in regional activity, magnitude distribution, and hemispheric frequency.
- Built an interactive Shiny dashboard with Plotly visualizations showcasing the top 10 active regions, maximum magnitudes by location, and station-error correlations.
- Delivered a data-driven analytical tool enabling stakeholders to explore geospatial earthquake patterns and make insight-backed interpretations.