

Zubin Mehta

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- Hyderabad

SUMMARY

Business professional with 9 years of cross-industry experience, currently **TRANSITIONING** into Data Science with a strong business-first mindset. Hands-on experience in building data-driven applications. Proficient in predictive modelling, data analysis, visualization, data processing, natural language processing, and more.

KEY SKILLS

Data Analysis: EDA, Data Cleaning, Feature Engineering, Statistical Analysis, A/B Testing

Data Engineering: Advanced SQL, Relational Databases, Schema & Metadata Management

Machine Learning: Supervised & Unsupervised Models (Regression, Tree-based, Clustering)

Model Evaluation: Cross-Validation, Hyperparameter Tuning

Generative AI: LLMs, Text-to-SQL Systems, Prompt Engineering, LLM Orchestration

Business & Leadership: Stakeholder Communication, Client Management, Mentoring

Domain Experience: E-Commerce, Banking, Finance, Insurance, R&D Taxation

TECHNICAL SKILLS (≈ 1 YEAR EXPERIENCE)

Languages: Python, SQL

Frameworks and Libraries: Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Plotly, BeautifulSoup, Folium, LangChain and LangGraph, FastAPI, Pytest, SQLAlchemy, YahooFinance, and more.

Technologies & Tools: AWS, Git & GitHub, Power BI, Microsoft Excel, WordPress CMS

PERSONAL PROJECTS

Text-to-SQL GenAI Agent (Production-ready) | Python, SQL, LLMs, LangChain, LangGraph

- Built a **production-grade Text-to-SQL GenAI system** with schema-grounded, validated SQL and deterministic safety controls
- Designed a **state-driven LangGraph execution pipeline** orchestrating generation, validation, retries, execution, and response synthesis
- Combined LLM reasoning with deterministic validation to block hallucinated tables, invalid joins, and unsafe queries
- Implemented **bounded, error-aware retries** with structured feedback for predictable cost and latency.
- Added post-execution result interpretation to prevent LLM value misalignment
- Created deterministic test suites for schema grounding, SQL invariants, and failure handling

[Click here to view the code for this project on GitHub](#)

SpaceX Falcon 9 Landing Success Prediction | Python, Scikit-learn

- Built an **end-to-end ML pipeline** to predict Falcon 9 landing success using **SpaceX API data** with a **web-scraped validation source**.
- Applied **domain-driven feature engineering**, EDA, and **geospatial analysis** to identify mission, hardware, reuse, and launch-site drivers of success.
- Trained and tuned **classification models** (Logistic Regression, SVM, Decision Tree, KNN) using **GridSearchCV** and evaluated results with **confusion matrices**.
- Communicated insights via an **interactive Dash dashboard** and ensured **reproducibility** through pinned dependencies.

[Click here to view the code for this project on GitHub](#)

Rainfall Prediction Classifier | Python, Scikit-learn

- Built a **machine learning classifier** to predict next-day rainfall using historical weather data.
- Performed **data cleaning, preprocessing, and train-test splitting** to prepare reliable model inputs.
- Implemented and compared **Logistic Regression and Random Forest** models.
- Achieved **~84% accuracy with Random Forest**, outperforming baseline models.
- Evaluated performance using **confusion matrix and classification metrics**.
- Developed in **Python using scikit-learn and Jupyter Notebook**.

[Click here to view the code for this project on GitHub](#)

PROFESSIONAL EXPERIENCE

alliantgroup | Hyderabad

Feb '21 - Jun '25

Senior Associate

- Performed SQL- and Power BI-driven EDA, identifying **\$8M–\$12M** in eligible US R&D tax refunds
- Delivered **100+ audit-ready research reports** resulting in approved refunds for SMB clients
- Leveraged LLMs to accelerate research and drafting, cutting turnaround time by **25%**
- Boosted delivery efficiency by **45%** using Excel planning tools and Power BI dashboards
- Led a **15-member cross-functional team** for 4+ years on high-value US R&D engagements

GlobalData | Hyderabad

Jan '20 - Jan '21

Associate Editor

- Written and delivered over 100 analytical reports for banking, financial services, and insurance industries
- Published and optimized content via **WordPress CMS** on [verdict.co.uk](https://www.verdict.co.uk), collaborating with UK teams to align data-driven insights with editorial goals
- **Analyzed financial data and regulatory filings** to identify key industry developments

Amazon | Hyderabad

May '16 - Apr '19

Selling Partner Support Associate

- Supported **70+ merchants daily** in high-volume environments, exceeding targets by **100%+**
- Resolved inventory and operations issues via phone, email, and chat, contributing to **12% sales improvement**
- Performed root-cause analysis on misrouted cases, collaborating with a **6-member BA team**
- Improved case classification accuracy through the **GEMBA** process-improvement initiative

CERTIFICATIONS/TRAINING

Microsoft Generative AI Foundations ([Certificate link](#))

IBM Data Science Professional Certificate ([Certificate link](#))

EDUCATION

O.P. Jindal Global University | Delhi

Apr '21 - Apr '23

MBA in Digital Finance & Banking