

# Zeeshan Altaf

Data Science / Data Analytics

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in Zeeshan Altaf

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## How do I see myself?

Data Scientist / Data Analyst with expertise in Python, SQL, Power BI and Excel. Experienced in machine learning, natural language processing, predictive analytics, and big data processing. Proven ability to design and implement data science pipelines, statistical models, data visualization solutions, and business intelligence dashboards that deliver actionable insights and support data-driven decision making.

## Education

Jul 2023 – Jun 2025	<b>Melbourne Institute of Technology (MIT), Australia</b> <i>Master of Data Analytics (CGPA: 6.33/7.0)</i> <ul style="list-style-type: none"><li>Data &amp; Information Management, Mathematical &amp; Statistical Methods, Data Science, Artificial Intelligence, Predictive Analytics, and Big Data Analytics.</li></ul>
Sep 2014 – Aug 2018	<b>University of Education, Pakistan</b> <i>Bachelor of Business Administration (CGPA: 3.64/4.0)</i> <ul style="list-style-type: none"><li>Statistical Interference, Economics, Financial Management, Business Communication, Organizational Behaviour, and Marketing Research.</li></ul>

## Academic Projects

Large Language Models (LLMs)	<b>Multi-class news classification by fine-tuning pre-trained LLMs</b> <ul style="list-style-type: none"><li>Comparative evaluation of DistilBERT, DistilBART, RoBERTa, and DistilGPT-2.</li><li>Implemented and fine-tuned with hugging face Transformers, built an effective news categorization pipeline to classify news categories from 42 distinct classes.</li><li>Best model (DistilBART) achieved 66.3% accuracy followed by DistilBERT, 64.7%.</li></ul>
Vision Transformers (ViTs)	<b>Improvised Explosive Devices (IEDs) detection in dustbins using ViTs</b> <ul style="list-style-type: none"><li>Fine-tuned multiple ViTs to classify explosive devices in waste receptacles.</li><li>ViT-Base-16 achieved a promising accuracy of 86.59%.</li></ul>
Classification	<b>Predicting outcome of patients after heart attack</b> <ul style="list-style-type: none"><li>Used XGBoost to predict patient outcomes (fatal or non-fatal) within 72 hours of hospital admission.</li><li>Addressed class imbalance using oversampling and feature selection techniques.</li><li>Fine-tuned model achieved 91.52% accuracy.</li></ul>
Forecasting	<b>Time Series Analysis to forecast electricity price (Australia)</b> <ul style="list-style-type: none"><li>Time series analysis with ARIMA in R using historical electricity prices.</li><li>Performed extensive exploratory data analysis (EDA) and pre-processing to improve model reliability.</li><li>The findings suggest that electricity prices would see a steady increase by 2050.</li></ul>
Big Data	<b>Big Data Analytics on AWS</b> <ul style="list-style-type: none"><li>Extract, load and transform big datasets using Hadoop ecosystem.</li><li>Query data for analysis using Hive and SQL.</li><li>Built a dashboard in Tableau to visualize trends and insights.</li></ul>

## Work Experience

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May 2022 - Nov 2022	<b>Insight Driven Research (IDR), Lahore, Pakistan</b> <i>Analyst, Market Research</i> <ul style="list-style-type: none"><li>Analyzed the requirements of quantitative and qualitative research projects.</li><li>Devise strategies to find the right expert for research.</li><li>On-board experts to provide consultation to client for market research.</li></ul>
Sep 2020 - Jun 2021	<b>Leverify LLC, Remote, USA</b> <i>Amazon Shipments Officer</i> <ul style="list-style-type: none"><li>Analyzed and provided solutions for discrepancies in shipments.</li><li>Reconciliation and reimbursement of lost products.</li><li>Collaborated with cross-functional teams to define, design, and transform existing processes.</li></ul>
Jan 2019 - Aug 2020	<b>Vivo Smartphones, Lahore, Pakistan</b> <i>Channel Officer</i> <ul style="list-style-type: none"><li>Critically analyzed channel problems and implemented effective solutions.</li><li>Market analysis to identify market gaps and new markets.</li><li>Trend analysis and forecasting to make market competitive strategies.</li></ul>

## Tools and skillset

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Programming & Query Languages	Python & SQL
Data Analysis & Machine Learning	NumPy, Pandas, Scikit-learn, Supervised, and Unsupervised Learning
Data Visualization	Power BI, Tableau, Matplotlib, and Seaborn
Big Data & Cloud	AWS, Hadoop, Hive, and Pig Latin
Soft Skills	Teamwork, problem-solving abilities, and effective communication

## Certifications

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- Data Analysis with Python (Coursera ID: 845ZLKCD6ZTM)
- Data Visualization & Communication with Tableau (Coursera ID: UQ65ZWJ2RZQ)
- Data Wrangling, Analysis & A/B Testing with SQL (Coursera ID: JQNGFDENQY5D)
- SQL for Data Science (Coursera ID: AJFVKDFKBNGN)
- Data Visualization in Excel (Coursera ID: 5N436LARHJD9)
- Excel Fundamentals for Data Analysis (Coursera ID: 75K9MUAP42KT)

## References

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- Available upon request