

# Ishan Mittal

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Stamp 1G - Independent Work Permission

## PROFESSIONAL SUMMARY

Results-driven Data Engineer with over 5 years of experience designing, developing, and optimizing large-scale data pipelines across manufacturing, retail, healthcare, and banking sectors. Demonstrated expertise in building robust ETL workflows and real-time streaming solutions using Talend DI, Databricks, and AWS. Skilled in developing data warehouse solutions on Snowflake, implementing Medallion Architecture and dimensional modeling to support analytical and BI workloads. Recognized for strong problem-solving abilities, stakeholder collaboration, and delivering high-performance, production-grade data systems. Holds a Master's in Data Analytics (First-Class Honours) from the University of Galway, along with certifications in Databricks, Snowflake, and AWS.

## SKILLS

- **Programming & Scripting:** Python, SQL, UNIX Shell Scripting
- **Big Data & ETL:** PySpark, Apache Spark, Data Lakes (S3, Delta Lake), Talend DI, dbt
- **Cloud & Data Platforms:** AWS, Azure Databricks, Snowflake, PostgreSQL, MongoDB
- **DevOps & Tools:** Git, Apache Airflow, Apache Kafka, Docker (basic), Kubernetes (basic), APIs (REST/SOAP)
- **Other Competencies:** AI & Machine Learning (TensorFlow, PyTorch, scikit-learn), Agile Delivery

## EXPERIENCE

### Data Engineer

July 2018 - July 2023

Wipro Limited, Bengaluru, India

- Built and orchestrated scalable ETL pipelines using PySpark and Databricks for a retail client, processing sales, inventory, and customer data. Created dashboards and authored SQL scripts, accelerating business reporting by 30%.
- Designed and deployed 100+ data integration workflows using Talend DI for a client in the healthcare and pharmaceutical domain, enabling batch and real-time processing of structured and semi-structured data (SAP IDocs, XML, JSON, CSV, Excel, Tables, etc.) from multiple data sources (SAP, Salesforce, APIs, S3, Kafka, DBs).
- Developed ELT pipelines and data warehouse solutions on Snowflake, implementing Medallion Architecture and Star Schema designs to support 20+ dashboards and analytical workloads.
- Designed reusable ETL frameworks with built-in monitoring, logging and alerting, cutting development time by 50% and reducing incident resolution time by over 5 hours per case.
- Worked on a cloud migration project for a banking client, migrating 50+ ETL pipelines and multi-terabyte datasets from on-prem to AWS and Snowflake, reducing processing time by 25% and enabling seamless integration with modern architectures like real-time analytics and cloud-native data lakes.
- Provided Talend-based ETL support for a manufacturing client, resolving Jira tickets, delivering timely job fixes, and ensuring uninterrupted data delivery.
- Conducted code reviews and led sprint ceremonies, maintaining a 95% on-time delivery rate and contributing to a 90% client satisfaction score.
- Mentored junior engineers, conducted KT sessions, and authored comprehensive technical documentation to support knowledge transfer and enforce coding standards.
- Collaborated closely with stakeholders, business users, and cross-functional teams to gather requirements, align on data goals, and deliver pipelines that supported key business initiatives and decision-making.

## EDUCATION

### M.Sc. in Data Analytics

2023 - 2024

University of Galway, Ireland

**Overall Result:** First Class Honours (1.1)

- **Relevant Modules:** Tools and Techniques for Large-Scale Data Analytics, Programming for Data Analytics, Machine Learning, Deep Learning, Natural Language Processing, Statistics for Data Science, Data Visualisation

### B.Tech. in Electronics and Communication Engineering

2014 - 2018

Delhi Technological University, India

**Overall Result:** 3.8/4.0 GPA

## CERTIFICATIONS

- **Databricks Certified Data Engineer Associate** | Databricks | April 2025 – April 2027
- **Academy Accreditation – Generative AI Fundamentals** | Databricks | November 2024 – November 2026
- **Snowflake SnowPro Core Certification** | Snowflake | May 2022 – May 2024
- **AWS Certified Solutions Architect – Associate** | AWS | November 2020 – November 2023

## PROJECTS & THESIS

### Airbnb Data Pipeline using dbt, Snowflake, and Dabster

- Built a complete data pipeline to analyze Airbnb listings by loading raw datasets and performing data cleaning.
- Developed modular and reusable dbt models following the Medallion Architecture and documented lineage using dbt Docs.
- Integrated testing and validation checks within dbt for data quality and schema consistency.
- Automated daily runs using Dabster orchestration and implemented end-to-end documentation for collaboration.

### Flight Delay Analysis and Prediction using PySpark on Databricks

- Built an end-to-end data pipeline on Databricks using PySpark to analyze flight delays across U.S. airports.
- Integrated flight, weather, and airline datasets to identify key delay factors and generate BI-ready aggregations.
- Trained classification models (Random Forest, Logistic Regression) to flag high-risk flights with basic predictive capability.

### Enhancing Financial Derivative Valuation – A Deep Learning Approach to Option Pricing

- Developed a hybrid LSTM-ARIMA model using TensorFlow and Keras to improve option pricing accuracy.
- Benchmarked against traditional models (Black-Scholes) and deep learning variants (CNN-LSTM, LSTM, GRU, MLP).

### Fake News Detection Using a Heuristic-Driven Ensemble Framework

- Combined BERT, RoBERTa, and DeBERTa using Hugging Face Transformers in a hybrid classification model.
- Enhanced performance with heuristics based on username and domain patterns.

## AWARDS & ACHIEVEMENTS

### IdeaLabs Enterprise Challenge – Certificate of Achievement

November 2023

University of Galway, Ireland

- Participated in the IdeasLab Enterprise Challenge and worked on a real-world problem from Aerogen.
- Gained valuable leadership and problem-solving experience while attending workshops on Team Building, Design Thinking, Innovation, and Storytelling.

### Five Habits Award

September 2022

Wipro Limited, Bengaluru, India

- Recognized as a Five Habits Champion for consistently demonstrating Wipro's core values.
- Highlighted for being highly responsive and fostering trust, communication, and stewardship.

### Trail Blazers Award

September 2022

Wipro Limited, Bengaluru, India

- Awarded for driving innovation and enabling the client to improve productivity through efficient solutions.

### Extraordinaire Award

February 2022

Wipro Limited, Bengaluru, India

- Honored for exceptional contributions and consistently exceeding expectations on critical project deliverables.

## REFEREES AVAILABLE UPON REQUEST