

# Ibrahim Malik

## AI Research Scientist & Data Analytics Specialist

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### Professional Summary

Analytics graduate with **2+ years of experience in AI-driven business solutions** and digital transformation. Demonstrated track record of delivering measurable impact through innovative technology applications, from achieving 167% improvement in medical diagnosis accuracy to processing 700,000+ records for policy insights. Strong foundation in **client-facing project delivery, stakeholder communication, and cross-functional collaboration**. Seeking to leverage analytical expertise and fresh perspective to drive real-world solutions for Grant Thornton's diverse client portfolio.

### Education

National College of Ireland

**MSc in Data Analytics**

Current Grade: **1:1** (First Class Honors)

Thesis: Enhancing Leukemia Diagnosis with Synthetic Data and Explainable Deep Learning Architectures

**Key Modules:** Advanced Machine Learning, Predictive Analytics, Data Visualization, Statistics, Business Intelligence

Dublin, Ireland

Expected September 2025

Curtin University Malaysia

**BEng Honors Electrical and Electronic Engineering**

Grade: **2:1** (Upper Second Class Honors)

Thesis: Single IMU-Based Multisegment Motion Analysis and Prediction

Sarawak, Malaysia

2020 - 2024

### Core Competencies

#### Technical Skills:

- Programming & Analytics:** Python, SQL, R, JavaScript, C/C++, Java, MATLAB
- Machine Learning & AI:** TensorFlow, GANs, Vision Transformers, CNNs, LLMs, Scikit-Learn
- Business Intelligence:** Tableau, PowerBI, BigQuery, Looker, Google Analytics
- Database & Cloud:** MySQL, MongoDB, PostgreSQL, Microsoft Azure, Databricks
- Project Management:** Git/GitHub, Docker, Azure DevOps, Trello

#### Business Skills:

- Client Engagement:** Stakeholder communication, data storytelling, presentation delivery
- Problem-Solving:** Critical thinking, hypothesis testing, experimental design
- Process Improvement:** Six-Sigma DMAIC, PDCA methodologies, KPI development
- Research & Analysis:** Literature review, academic writing, systematic evaluation

### Professional Experience

#### IT Intern - Data Reporting

May 2025 - July 2025

National College of Ireland (ELI SFI Coding Club)

Dublin, Ireland

- Delivered 30% improvement in reporting efficiency** by designing and implementing Power BI dashboards for student performance monitoring
- Managed client relationships** across education and administrative leadership teams to gather requirements and deliver solutions
- Managed documentation and version control** using modern collaborative tools (Notion, GitHub), ensuring knowledge transfer and project continuity

#### Data Science and Business Analytics Intern

Jan 2024 - Aug 2024

The Sparks Foundation

Remote

- Delivered high-accuracy predictive models** achieving 95% accuracy in student performance prediction using supervised machine learning techniques
- Created interactive business intelligence solutions** including Tableau dashboard for COVID-19 case visualization across European markets
- Developed stakeholder communications** through interactive Python visualizations, presenting trends in educational data and business performance

#### R&D Product Engineer

Nov 2021 - Mar 2023

NCIG (M) Sdn Bhd.

Selangor, Malaysia

- Managed 200+ product test cases using internal BI tools**, establishing systematic customer feedback loops
- Reduced information retrieval time by 30%** through optimized QA log management and technical documentation
- Collaborated with product and support teams** to resolve hardware issues using structured defect analysis
- Generated engineering KPI reports** and quality assurance metrics to drive continuous improvement initiatives

Key Technology Projects (GitHub)

AI-Powered Healthcare Solutions

[Link]

- **Impact:** Achieved 167% sensitivity improvement in leukemia detection, addressing critical healthcare challenges
- **Innovation:** Developed novel hybrid deep learning system combining GANs with Vision Transformers
- **Business Value:** Built production-ready clinical decision support system with 22ms response time
- **Research Excellence:** First systematic study identifying architecture-specific optimization strategies

Large-Scale Data Analytics for Policy Development | Big Data & Public Policy

[Link]

- **Scale:** Processed 700,000+ public health records using PySpark on Azure Databricks
- **Insights:** Identified key socioeconomic drivers of disability prevalence for informed policy development
- **Technical Leadership:** Engineered end-to-end data pipeline from Azure BLOB Storage to multiple databases
- **Business Impact:** Delivered regression models ( $R^2 = 0.72$ ) informing inclusive policy strategies

Digital Transformation Project - Debenhams Ireland Revival | Analytics & Business Transformation

[Link]

- **Strategy:** Led comprehensive analytics and operations redesign for major retail transformation
- **Data Architecture:** Built MySQL data warehouse integrating 150,000+ historical records via Python ETL
- **CRM Implementation:** Migrated 8,000+ customer profiles to Salesforce, automating marketing workflows
- **Business Intelligence:** Developed three interactive Tableau dashboards enabling real-time decision-making
- **Process Optimization:** Applied Six-Sigma methodologies to redesign inventory management and KPIs

Research & Innovation

Artificial Intelligence Research Assistant

Jan 2025 - Aug 2025

Supervisor: Dr. Bharat Agarwal

National College of Ireland

- **Led groundbreaking healthcare AI research** resulting in 167% improvement in leukemia detection sensitivity, addressing critical patient safety challenges
- **Managed complex multi-stakeholder project** coordinating with technical teams and academic supervisors
- Presented research findings at International Conference on AI, Computer, Data Sciences (ACDSA 2025), serving as **Session Chair for Deep Learning track**
- **Produced systematic literature review** analyzing 50+ academic papers, identifying critical gaps and opportunities in medical AI landscape

Machine Learning Research Assistant

Feb 2023 - Sep 2023

Supervisor: Dr. Saaveethya Sivakumar

Curtin University Malaysia

- **Conducted literature review of 30+ academic papers** on LSTMs as research foundation for model development
- **Engineered LSTM model** from time-series data achieving 0.86 correlation, enhancing predictive capability in diagnostics
- **Applied practical healthcare technology** with real-world applications in gait analysis and rehabilitation medicine

Leadership & Professional Development

Conference Leadership

- **Session Chair:** Deep Learning - II, ACDSA Conference 2025
- **Award Winner:** 3rd Place, IDEATHON 2025 - Developed "Celtify," AI-powered language preservation tool

Industry Engagement

- **Citi upStart 2025:** Team-based entrepreneurship program developing AI-driven healthcare solutions
- **IEEE Society Member:** Delivered presentations and STEM outreach to high school students

Professional Development & Certifications

- PL-300: Power BI Data Analyst Associate (Scheduled – Sep 2025)
- Microsoft DP-900: Azure Data Fundamentals (2025)
- HackerRank Advanced SQL Certificate (2025)
- Google Data Analytics Certificate (Coursera, 2024)
- IEEE Society Member (2023) - Curtin Malaysia Chapter
- STEM Education Advocate - Delivered presentations to high school students on mathematics and engineering

Publications

- Malik, I., Diang'a, L.J., Stynes, P., Pathak, P., & Sahni, A. (2025). Leukemia Classification through Deep Learning Techniques and Generative AI. (ACDSA 2025) — forthcoming. *Session Chair: Deep Learning - II.*
- Groenewald, E., Khan, M., Raza, S., Malik, I., Tehseen, R et al. (2024). Unlocking Competitive Advantage: The Nexus of IT, Absorptive Capacity, and Dynamic Capabilities in Organizational Performance. Remittances Review.
- J. Lee, I. Malik, A. C. L. Thien and S. Sivakumar, "Lower Limb Gait Estimation Using Foot Motion and Neural Network," 2023 International Conference on Digital Applications, Transformation & Economy (ICDATE).