

Mai Khoi TIEU

Data Scientist | Analytics Engineer



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Ho Chi Minh City, Vietnam
Female | Born 1998 | Vietnamese

Four years' experience in analytics engineering and data science, supporting data-driven decision-making for IoT-enabled systems through robust pipelines, experimentation, and analytics platforms. Holds an M.Sc. in Data Science from the University of Verona, with international experience through the Erasmus program at the University of Oslo. Proven end-to-end delivery—from data ingestion and modeling to dashboards and monitoring—validated through rigorous statistical methods and performance metrics.

EDUCATION

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| 2023-2025 | M.Sc. in Data Science, University of Verona (CGPA 108/110) |
| 2024-2025 | Erasmus Program, University of Oslo |
| 2017-2021 | B.Sc. in Mathematics, VNUHCM (CGPA 8.02/10 - Thesis Grade: 9.5/10) |
| 2016-2020 | B.B.A. in Business Administration, Ho Chi Minh City Open University (CGPA 3.40/4.0 - Ranked 4th overall) |

WORK EXPERIENCE

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| Apr 2025 Sep 2025 | Research Intern, SINTEF, Oslo, Norway ➤ Advanced the SINDIT Digital Twin by extending its knowledge-graph schema and improving interoperability across sensor streams, asset metadata, and system ontologies. ➤ Developed a web-based interface for real-time visualization and interaction with the knowledge graph and digital twin state. ➤ Designed and built an LLM-enhanced multi-agent architecture enabling real-time monitoring, contextual retrieval, and explainable human-in-the-loop assistance on live factory data. Knowledge Graphs Neo4j GraphDB SvelteKit d3.js RAG LangChain LLMs Multi-Agent Systems |
| Apr 2022 Sep 2023 | Analytics Project Manager & Data Analyst, Fossil Group Inc., Ho Chi Minh City, Vietnam ➤ Promoted and held a dual role as Analytics Project Manager and Data Analyst in the 2nd year. ➤ Planned sprint resources, timelines, and schedules for the analytics section in internal program release. ➤ Led cross-functional teams to develop an A/B testing workflow for wearable devices and companion apps (experiment design, wireframes, rollout). ➤ Implemented metrics frameworks and dynamic dashboards to track KPIs and gain valuable insights into user behavior, device performance monitoring, and wellness data from wearable devices. ➤ Designed event tracking and data flows between IoT devices and apps. ➤ Developed an internal Tracking Event Management tools for Data Quality Monitoring and Self-service Analytics, which automates the generation of daily queries and implements result alerts. BigQuery Python Looker Tableau AWS IoT Wearable Devices A/B Testing Project Management Agile |
| Aug 2021 Feb 2022 | Data Analyst, Amanotes, Ho Chi Minh City, Vietnam ➤ Performed statistical and analytical analyses, including correlation between app events, A/B testing, cohort analysis, and aha-moment identification in the music game. ➤ Built and maintained data pipelines with automated tests. ➤ Implemented and analyzed spectrograms of musical notes of another instrument. ➤ Trained and optimized TensorFlow Lite models for mobile inference. BigQuery Airflow dbt TensorFlow Python |
| Mar 2020 Aug 2021 | Software Engineer, Data, Bosch Global Software Technologies, Ho Chi Minh City, Vietnam ➤ Collaborated with Bosch Automotive Products on automated driving use cases and data quality. ➤ Analyzed software development logs and automotive radar data against QA/validation metrics for Advanced Driver Assistance Systems and Automotive Software Development Validation. ➤ Built and maintained analytics CI pipelines in Jenkins (automated jobs, scheduled reporting). ➤ Developed and operated data pipelines, databases, and dashboards for engineering stakeholders. ➤ Implemented automated database deployment and dashboard releases to validation workflows. Jenkins SQL Python Power BI CI/CD ADAS |

PUBLICATIONS

Journal Articles

1. Tieu, M. K., H. V. Pham, N. T. Vu, and P. T. H. Nguyen (2022). "STL Decomposition-Based Stock Price Forecasting Using LSTM Model". In: *Journal of Data Science and Artificial Intelligence* 1.1.

2. Vuong, P. H., T. T. Dat, M. K. Tieu, P. H. Uyen, and P. T. Bao (2022). "Stock-Price Forecasting Based on XGBoost and LSTM". In: *Computer Systems Science and Engineering* 40.1, pp. 237–24.

Conference Proceedings

1. Lam, A. N., G. B. Svaland, V. Hoffmann, M. K. Tieu, B. Elvesaeter, X. Ma, D. Roman, and P. H. Nguyen (2025). "A data space-driven approach for interoperability in federated digital twins". In: *Proceedings of the 17th International Conference on Management of Digital Ecosystems (MEDES 2025)*. Accepted.
2. Tieu, M. K., P. H. Nguyen, A. N. Lam, and S. Sen (2025). "Multi-agent generative AI on digital twins: A learning feedback loop framework for monitoring and explainability". In: *Proceedings of the 17th International Conference on Management of Digital Ecosystems (MEDES 2025)*. Accepted.

SKILLS

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| Programming Languages | Python, JavaScript/TypeScript, C/C++, MATLAB, R |
| Web & Frontend | React, Next.js, Tailwind CSS |
| AI/ML & LLMs | TensorFlow, PyTorch, LangChain, Hugging Face, RAG |
| Data & Pipelines | Airflow, dbt, SQL (PostgreSQL), BigQuery, MongoDB |
| Graph & Vector DBs | Neo4j (Cypher), GraphDB, Pinecone |
| Cloud & DevOps | GCP (BigQuery), AWS (S3, Redshift), Docker, CI/CD, Git/GitHub |
| Tools | Jenkins, Airflow, Visual Studio Code, IntelliJ Idea |

COMMUNITY PROJECTS

PERSONAL BLOG

2023 - PRESENT

 tieukhoimai.me  github.com/tieukhoimai/mia-blog-v3

Beyond my professional work, I am dedicated to building and sharing knowledge with communities through my website, where I showcase my projects, ideas, and resources. In total, my website has over 10k+ views and 3.5k+ active users, with a series about Data Warehouse attracting 1.5k+ users and Study with Me notes having over 500 users.

Next.js | TypeScript | Tailwind CSS | MDX

MAPME - A DEDICATED INITIATIVES, AND ORGANIZATIONS TO SHAPE SUSTAINABLE SOLUTIONS

2024

 mapme.asia

I've been contributing to Mapme as a data scientist, where I develop knowledge-driven maps that integrate satellite data, infrastructure maps, and local insights to promote sustainable development and enhance climate resilience in the Mekong Delta.

Google Earth Engine | Python | Geospatial Analysis

DATACRACY PROGRAM - EMPOWERING NEXT GENERATION OF DATA SCIENTISTS IN VIETNAM

2022

 DTacracy

Through this program, I presented a data visualization workshop while simultaneously raising awareness among the public in Vietnam by focusing on data-driven innovations and their applications.

Tableau | Data Visualization

AWARDS

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| 2023 | Scholarship for Women in STEM — University of Verona |
| 2022 | Mathematical Contest in Modeling — The Consortium for Mathematics and its Applications (COMAP) |
| 2021 | Top National Students Award — Ministry of Education and Training of Vietnam |
| 2021 | Second Runner-up — Greenovator Hackathon (Bosch Vietnam) |
| 2020 | Scholarship National Program for the Development of Mathematics — VIASM |
| 2019 | Third Prize — Business Intelligence Competition |
| 2019 | Second Prize for Scientific Research Award — Ho Chi Minh City Open University |
| 2018 | Third Prize for Scientific Research Award — Ho Chi Minh City Open University |
| 2016 | Merit-based Scholarships — Ho Chi Minh City Open University |

LANGUAGES

Vietnamese



English



STRENGTHS

- Research-minded
- Problem-solving
- Initiative
- Communication