

# Mai Khoi TIEU

## Data Scientist | Analytics Engineer



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

I hold an M.Sc. in Data Science from the University of Verona, with international experience through an Erasmus exchange at the University of Oslo and a six-month research internship at SINTEF Digital. At SINTEF, I contributed to the design and implementation of multi-agent architectures for manufacturing Digital Twin systems. Previously, I spent four years working as a Data Analyst/Engineer in Vietnam on large-scale IoT products, including ADAS radar systems at Bosch and WearOS smartwatch platforms at Fossil Group. I have hands-on experience with analytics engineering, BI tools, CI/CD pipelines, and cloud deployment on GCP and AWS.

### EDUCATION

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

### WORK EXPERIENCE

Apr 2025 Sep 2025	<p><b>Research Intern, <a href="#">SINTEF</a>, Oslo, Norway</b></p> <ul style="list-style-type: none"><li>➤ Advanced the SINDIT Digital Twin by extending its knowledge-graph schema and improving interoperability across sensor streams, asset metadata, and system ontologies.</li><li>➤ Developed a web-based interface for real-time visualization and interaction with the knowledge graph and digital twin state.</li><li>➤ 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.</li></ul> <div style="display: flex; justify-content: space-around; gap: 10px;"><span>Knowledge Graphs</span><span>Neo4j</span><span>GraphDB</span><span>SvelteKit</span><span>d3.js</span><span>RAG</span><span>LangChain</span><span>LLMs</span><span>Multi-Agent Systems</span></div>
Apr 2022 Sep 2023	<p><b>Analytics Project Manager &amp; Data Analyst, <a href="#">Fossil Group Inc.</a>, Ho Chi Minh City, Vietnam</b></p> <ul style="list-style-type: none"><li>➤ Promoted and held a dual role as Analytics Project Manager and Data Analyst in the 2nd year.</li><li>➤ Planned sprint resources, timelines, and schedules for the analytics section in internal program release.</li><li>➤ Led cross-functional teams to develop an A/B testing workflow for wearable devices and companion apps (experiment design, wireframes, rollout).</li><li>➤ 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.</li><li>➤ Designed event tracking and data flows between IoT devices and apps.</li><li>➤ 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.</li></ul> <div style="display: flex; justify-content: space-around; gap: 10px;"><span>BigQuery</span><span>Python</span><span>Looker</span><span>Tableau</span><span>AWS</span><span>Redash</span><span>Grafana</span><span>Firebase</span><span>IoT</span><span>Wearable Devices</span><span>Project Management</span></div>
Aug 2021 Feb 2022	<p><b>Data Analyst, <a href="#">Amanotes</a>, Ho Chi Minh City, Vietnam</b></p> <ul style="list-style-type: none"><li>➤ Performed statistical and analytical analyses, including correlation between app events, A/B testing, cohort analysis, and aha-moment identification in the music game.</li><li>➤ Built and maintained data pipelines with automated tests.</li><li>➤ Implemented and analyzed spectrograms of musical notes of another instrument.</li><li>➤ Trained and optimized TensorFlow Lite models for mobile inference.</li></ul> <div style="display: flex; justify-content: space-around; gap: 10px;"><span>BigQuery</span><span>Vertex AI</span><span>Airflow</span><span>dbt</span><span>Python</span><span>Metabase</span><span>A/B Testing</span></div>
Mar 2020 Aug 2021	<p><b>Software Engineer, Data, <a href="#">Bosch Global Software Technologies</a>, Ho Chi Minh City, Vietnam</b></p> <ul style="list-style-type: none"><li>➤ Collaborated with Bosch Automotive Products on automated driving use cases and data quality.</li><li>➤ Analyzed software development logs and automotive radar data against QA/validation metrics for Advanced Driver Assistance Systems and Automotive Software Development Validation.</li><li>➤ Built and maintained analytics CI pipelines in Jenkins (automated jobs, scheduled reporting).</li><li>➤ Developed and operated data pipelines, databases, and dashboards for engineering stakeholders.</li><li>➤ Implemented automated database deployment and dashboard releases to validation workflows.</li></ul> <div style="display: flex; justify-content: space-around; gap: 10px;"><span>Jenkins</span><span>SQL</span><span>Python</span><span>Power BI</span><span>Dash</span><span>CI/CD</span><span>ADAS</span><span>Radar</span></div>

### 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, Git/GitHub
Tools	Jenkins, Airflow, Visual Studio Code, IntelliJ Idea

## COMMUNITY PROJECTS

### PERSONAL BLOG

2023 - PRESENT

 [tieukhoimai.me](http://tieukhoimai.me)  [github.com/tieukhoimai/mia-blog-v3](https://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](http://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 — <a href="#">University of Verona</a>
2022	Mathematical Contest in Modeling — <a href="#">The Consortium for Mathematics and its Applications (COMAP)</a>
2021	Top National Students Award — <a href="#">Ministry of Education and Training of Vietnam</a>
2021	Second Runner-up — <a href="#">Greenovator Hackathon (Bosch Vietnam)</a>
2020	Scholarship National Program for the Development of Mathematics — <a href="#">VIASM</a>
2019	Third Prize — <a href="#">Business Intelligence Competition</a>
2019	Second Prize for Scientific Research Award — <a href="#">Ho Chi Minh City Open University</a>
2018	Third Prize for Scientific Research Award — <a href="#">Ho Chi Minh City Open University</a>
2016	Merit-based Scholarships — <a href="#">Ho Chi Minh City Open University</a>

## LANGUAGES

Vietnamese



English



## STRENGTHS

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