

# Tran Manh Khoi

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...Or you can [click here to view my Portfolio](#) and other contact methods

## EDUCATION

<b>B.Econ. in Mathematical Economics</b> University of Economics and Law (VNU-HCM)	<b>Sep 2022 - Expected Mar 2026</b>
<ul style="list-style-type: none"><li><b>Relevant Courses:</b> Econometrics, Financial Mathematics, Basic Programming, Data Analysis in Economics, Data Visualization, Database Management, Panel Data Analysis, Time Series Analysis in Finance, Business Information Systems (BIS),...</li></ul>	
<b>B.Cs. in Information Technology</b> Nha Trang University	<b>Sep 2021 - Aug 2022</b>
<ul style="list-style-type: none"><li><b>Computer Science Courses:</b> Computer Architecture, Operating System, Data Structures and Algorithms, Object Oriented Programming</li></ul>	

## SKILLS

<b>Languages:</b> Python, SQL, Bash
<b>Tools:</b> Advanced Excel, Power BI, Scikit-learn, Spark, Keras, Docker, Kubernetes
<b>Project Management:</b> Agile/Hybrid, Jira, Confluence, Cloud, Git (Version Control)
<b>Soft Skills:</b> Analytical Problem-Solving, Collaborative Communication, Attention to Detail, Fast Learner & Adaptability

## PROJECTS

<b>RAG - based Document Query Application</b> - Demo - Personal project	<b>Jul 2025 – Apr 2025</b>
<ul style="list-style-type: none"><li>Engineer a proof-of-concept solution by implement a Retrieval-Augmented Generation (RAG) pipeline to query and summarize PDF documents.</li><li>Wrote the core logic in Python, focusing on the seamless integration of Google Gemini, LangChain, and FAISS, and designed a caching system for response optimization.</li></ul>	
<b>Flight Delay Forecasting Pipeline</b> - Personal project	<b>May 2025 - Jun 2025</b>
<ul style="list-style-type: none"><li>Engineered an end-to-end time-series ML pipeline (ETL → ColumnTransformer → expanding-window CV) on 43k monthly BTS records; selected a Gradient Boosting model with MLflow.</li><li>Delivered a sub-5 ms Docker API so planners can try schedule tweaks in real time, cutting error 75 % (MAE 0.0257, RMSE 0.0366, R<sup>2</sup> 0.913)</li></ul>	
<b>Scanned Document Text Extractor</b> - Personal project	<b>May 2025 - Jun 2025</b>
<ul style="list-style-type: none"><li>Conducted research on OCR techniques and applied a Deep Learning Transformer model to build a robust text extraction script.</li><li>Containerized the pipeline with Docker to create a portable solution, ensuring consistent performance and easy integration into other applications.</li></ul>	

## ACTIVITIES & LEADERSHIP

<b>Head of the Academic Committee</b> Faculty of Mathematical Economics Youth Union & Economic Mathematics Club, UEL	<b>May 2023 - Present</b> Ho Chi Minh, Viet Nam
<ul style="list-style-type: none"><li>Designed and led hands-on workshops and curated problem sets that improved quantitative readiness for 100+ students; set up peer review and office hours to raise completion and feedback quality.</li><li>Coordinated the 15th Spring Volunteer Program 2025, managing logistics, briefing volunteers, and reporting outcomes to faculty sponsors.</li></ul>	

## PUBLICATIONS

<b>Analysis of CO2 emissions and energy consumption in Vietnam</b> on University of Economics and Law (VNU-HCM)	<b>Apr 2025</b>
<ul style="list-style-type: none"><li>Co-authored a study that engineered a validated time-series pipeline (cleaning, integrity checks, baseline forecasting) and synthesized policy-oriented insights with reproducible charts and technical appendix.</li><li><b>Key Skills:</b> Data Integrity, Time-Series Forecasting, Quantitative Modeling, Statistical Analysis, Matplotlib...</li></ul>	

## LANGUAGES

<b>Vietnamese</b>   Native
<b>English</b>   Professional Working Proficiency
Confident in professional communication for team collaboration and documentation. (TOEIC: 530 L&R, 230 S&W)