Minh Triet Pham

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EDUCATION

The University of Melbourne Melbourne, Australia

Bachelor of Science in Data Science, WAM: 83.286/100 *Expected Nov. 202*

- **Coursework** (*current*): Databases, Elements of Data Processing, Data Structures and Algorithms, Object-Oriented Programming, Probability, *Statistics, Linear Algebra

EXPERIENCE

Python Programming Instruction Mar. 2025 – Jun. 2025

Python Programming Instructor *Remote*

- Designed comprehensive Python curriculum for a group of 5 secondary students covering data types and core programming concepts
- Guided students through 2 algorithm-based projects using problem-solving methodologies and coding challenges
- Introduced Python applications in data science, connecting theoretical concepts with industry practices
- Achieved 100% project completion rate through personalized mentoring and structured learning sessions

FutureTrack Jan. 2025 – Apr. 2025

Data Analyst & Front-End Developer *Melbourne, Australia*

- Predicted market size trends with 90% accuracy by implementing machine learning models using Scikit-learn
- Scraped 150+ websites for information on 40+ academic majors by utilizing BeautifulSoup
- Built responsive career guidance website serving 200+ students by developing with HTML/CSS/JavaScript
- Created comprehensive visualizations for 40+ majors by designing data-driven graphics with Matplotlib

Private Mathematics Tutor Mar. 2022 – Nov. 2024

Independent Tutor *Melbourne, Australia & Hanoi, Vietnam*

- Provided personalized mathematics instruction to students across multiple academic levels for 2 years
- Developed customized lesson plans and problem-solving strategies to address individual student learning needs
- Improved student academic performance by 50% through clear explanations of complex mathematical concepts

PROJECTS

Australian Accident Investigation | Link | *Python, Pandas, Matplotlib, Scikit-learn, Seaborn, NLTK*

- Structured and cleaned 500,000+ accident records achieving 95% data integrity using Pandas and regex
- Built predictive risk models identifying 3 critical accident factors using Scikit-learn correlation analysis
- Generated comprehensive reports with data visualizations using Seaborn and Matplotlib for safety recommendations
- Analyzed text patterns in accident descriptions using NLTK BoW analysis to identify high-risk scenarios

Aircraft Boarding Optimization | Link | *Python, NumPy, Matplotlib*

- Developed simulation models processing 10,000+ boarding scenarios with 1-minute accuracy using Python
- Optimized aircraft turnaround algorithms reducing boarding time by 15% through mathematical modeling
- Created actionable business insights from 5,000+ data points using NumPy and Matplotlib visualizations

HONORS & AWARDS

Melbourne International Undergraduate Scholarship | The University of Melbourne May 2023
Third Prize | Vietnam Mathematical Olympiad May 2023
Meritorious Prize | International Mathematical Modeling Challenge Jul. 2022
High Distinction | Australian Intermediate Mathematics Olympiad Sep. 2021

TECHNICAL SKILLS

Languages: Python, Java, C/C++, R, SQL (MySQL), HTML/CSS/Javascript, LATEX, Matlab
Developer Tools: Git (GitHub/GitLab), VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Notebook
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, NLTK, BeautifulSoup