

# Hien Le

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## EDUCATION

### Toronto Metropolitan University (TMU)

Toronto, ON, Canada

2020 - 2024

- Bachelor of Science (BSc) in Computer Science
  - GPA: 3.84 / 4.33 ; Award: Dean's List 2021, 2022, 2023, 2024

## TECHNICAL SKILLS

- **Machine Learning/Statistics:** LLMs (Large Language Models), Survival Analysis, Statistical ML (Forests, SVMs), Deep Learning (RNNs, Autoencoders, CNNs, GANs), Transfer Learning, Multi-instance Learning, NLP, Data Mining, Feature Extraction/Engineering
- **Software Tools:** R, Python (TensorFlow, Keras, Pytorch, Sklearn) (4+ yrs experience), SQL (NoSQL, MySQL, BigQuery) (3+ yrs), Data (Tableau, PowerBI) (2yrs), Linux/Unix Shell Scripting (3+ yrs), MATLAB (4+ yrs), Java, Git, Javascript, React, Swift, OpenGL, C/C++
- **Cloud platforms/Container technologies:** Google Colab, AWS, Jupyter Notebook; Docker, Kubernetes

## WORK EXPERIENCE

### Research Assistant

Toronto, ON, Canada

May 2023 - Present

- *IAMLAB - Biomedical Engineering - [Dr. April Khademi](#) (PI)*
  - **Applied advanced machine learning models:** Utilized Python and MATLAB to train tumor detectors among breast cancer, achieving a 15% improvement in model accuracy through innovative data processing techniques.
  - **Conducted in-depth research:** Investigated biomarker HER2 classification methodologies, demonstrating versatile expertise in digital pathology, statistical analysis, and model evaluation.
  - **Optimized database efficiency:** Enhanced data management and data integrity, prepared detailed technical documentation, and presented research findings, ensuring clear communication of complex analytical results.
  - **Transformed raw data into visualizations:** Created meaningful data visualizations using advanced dashboard tools (e.g., Tableau, Power BI) to report SOX, business objectives, and key performance indicators (KPIs).
  - **Collaborated with prestigious institutions:** Partnered with the University Health Network (UHN) to acquire over 500 raw data samples, demonstrating a proactive approach to data collection and effective stakeholder management.

### Data Analyst Intern

Lam Dong, Vietnam

May 2022 - September 2022

- *HT General Clinic - Medical and Healthcare*
  - **Queried and analyzed large datasets:** Managed over 700 patient records weekly using SQL, reorganized data in Excel, and utilized PivotTable for data analytics and pattern analysis, contributing to a 25% increase in patient acquisition strategies.
  - **Automated database maintenance tasks:** Implemented Task Scheduler (Windows) to reduce manual labor by over 20 hours per week, allowing resource reallocation to other strategic initiatives.
  - **Developed predictive analytics models:** Forecasted patient visit trends and market performance of comparable services, resulting in a potential 15% increase in monthly revenue through improved strategic planning.
  - **Ensured data integrity and security:** Worked with a team of four database management professionals, implementing quality assurance protocols that improved maintenance of data integrity and inventory control.
  - **Generated detailed performance reports:** Charting and graphing data with Tableau to provide actionable insights, increasing operational efficiencies by 12% and supporting successful cost-cutting measures.

### Database Administrator

Toronto, ON, Canada

November 2021 - April 2022

- *Mathnasium - Math Learning Center*
  - **Developed real-time update systems:** Created a system for real-time updates on employee survey responses related to operational processes, enhancing data management and reducing decision-making time by 50%.
  - **Maintained meticulous records:** Tracked the progress of 150+ students, showcasing attention to detail necessary for verifying compliance with contract documents and preparing progress reports to stakeholders.
  - **Integrated a data management system:** Enhanced workflow efficiency by 200% with the database network, demonstrating effective end-to-end project management.
  - **Managed database design and recovery planning:** Ensured the reliability, security, and availability of educational data by showcasing advanced problem-solving and test automation tools utilization.
  - **Utilized VLOOKUP functions:** Cleaned data and streamlined scheduling processes improving data integrity.

## PROJECTS

### World Happiness Report: <https://github.com/h11le/World-Happiness-Report>

- Analyzed the raw open-source World Happiness Report dataset represented in Excel file using R and ShinyApp, examining factors influencing global happiness levels including annual GDP, social support, health life expectancy, etc.
- Utilized ggplot2 and Plotly for creating interactive and dynamic visualizations to understand happiness determinants

### TMU Classified: <https://github.com/v-likithan/tmu-classified>

- Developed a React web platform designed to facilitate classified advertisements within the TMU community, enabling users to buy, sell, or trade goods and services, utilized MongoDB to oversee ads, users, site settings, and chat repositories
- Conducted unit tests using testing frameworks (i.e., Jest and React Testing Library), resulting in robust code coverage