

# Huyen Vu

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## EDUCATION

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### Mercyhurst University

*Master of Science in Data Science*

**Erie, Pennsylvania**

Graduated May 2020

- **GPA** 3.86 / 4.00
- Relevant courses: Big Data Analytics, Relational and Non-relational Databases, Social Media Mining, Machine Learning, Data Wrangling, Data Visualization, Data Structures & Algorithms
- Master's thesis: Machine Learning in Money Laundering Detection (published in [Proceedings of the Third Annual Great Lakes Data Science Symposium](#))

### Mercyhurst University

*Bachelor of Arts in Business Economics*

**Erie, Pennsylvania**

Graduated May 2018

*Bachelor of Arts in Finance*

- **GPA** 3.6 / 4.00 – Honors: Dean's List, Delta Mu Delta International Honor Society in Business
- Relevant courses: International Economics, International Finance, Business Analytics, Business Policy & Strategy
- Senior project: Molson Coors Brewing Company Strategic Plan

## SKILLS

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**Technical skills:** Data Mining, Data Wrangling, Statistics, Big Data Analytics, Data Visualization, Machine Learning

**Programming:** Python (pandas, NumPy, Keras, scikit-learn, matplotlib), R (tidyverse, ggplot2, dplyr), JavaScript, SQL

**Tools & Technologies:** Google Cloud Platform, R Studio, Microsoft Office Applications, PostgreSQL, Neo4j, GitHub, Tableau, d3.js, Jupyter Notebook

## PROJECTS

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### Wabtec Corporation

*Data Science Project Member - Data Analyst*

**Erie, Pennsylvania**

#### Computer Vision Solution Project

October 2019 – December 2019

- Identified pantograph failure on trains by calculating the distance from the power line to pantographs
- Applied TensorFlow's object detection model to detect pantograph heads

#### Train Recognition through Satellite Images Project

July 2019 – September 2019

- Designed a machine learning-based proof of concept to distinguish between satellite images of train tracks with catenary from those without ones (images collected from Google Static Maps API)
- Developed a Keras/TensorFlow prediction model with an accuracy of 80.9%

### Mercyhurst University Computing & Information Science Department

*Graduate Research Assistant*

**Erie, Pennsylvania**

May 2019

- Research paper: Review of Scientific Literature on Strategies for Increasing Participation by Under-Represented Groups in K-12 Computer Science Education

## WORK EXPERIENCE

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### Mercyhurst University Communication Department

*Graduate Assistant*

**Erie, Pennsylvania**

August 2018 – May 2020

- Assisted the professors in grading, creating exams, and monitoring students' assignment submission daily
- Developed a work schedule and oversaw 5 work-study students

### Lafaro Insurance Agency – Insurance Agency of Erie Insurance Company

*Marketing Data Analytics Intern*

**Erie, Pennsylvania**

May 2019 – August 2019

- Executed social media analysis and text mining to find insights about trends and engagement rates to develop digital marketing strategies to increase brand awareness – Platform used: Facebook and Twitter
  - Increased website and Facebook traffic by 80% in 3 months
- Created 7 data reports daily through Insurance Management System (IMS)

### PwC Vietnam

*Technology Consulting Intern*

**Hanoi, Vietnam**

June 2016 – August 2016

- Researched and analyzed large data sets related to banking technical issues
- Collaborated with PwC's Project Head Manager details of the meeting during weekly report meeting with Vietinbank
- Assisted team members preparing and translating documents for the Core Banking Replacement project