Nguyen Duc Thanh Vinh

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EDUCATION

Monash University - Freshman   *Graduation Date: July 2025*

- Bachelors in Advanced Computer Science, Data Science Specialization
- High Distinction - GPA: 3.92
- Relevant coursework: Data Science, Algorithms and Programming Fundamentals, Computer Systems, Networks and Security

High School for Gifted Students - Hanoi National University of Education   *Aug 2019 - May 2022*

- Informatics Specialized Class
- GPA: 9.6
- IELTS: 7.5

EXPERIENCE

Data Glacier *(Data Science Intern)*   *October 2022 - now*

- Collaborated with peers coming from over 15 countries around the world to investigate and explore insights regarding the U.S Cab Industry, worked within a team of 4 using data analytical approaches in order to hypothesize and deliver actionable recommendations for a go-to-market investment strategy into the Cab Industry.
- Wrangled and analyzed 350000+ observations across 19 cities.
- Evaluated customers' behaviors such as retention rates or preferences in terms of income, age, genders, cities, and public holiday to verify the cyclicality in demand and profit.
- Forecasted profit and loss of 2 Cab companies by fitting a Polynomial Regression model, increased the accuracy of the forecasting model from 74% to 82% by introducing a model-based approach while dealing with missing and counter-intuitive values.

PROJECTS

Network Security Control Design and Network Traffic Analysis   *Nov 2022*

- Took on the role of a security architect to analyze and design network security controls for the customer-facing management department and the research and development department of a medium-sized company.
- Recorded and analyzed technical characteristics of Internet access points, and investigated the interference of distances, materials, and channel occupancy to the signal strength, download, and upload speed in different locations of departments.
- Presented the approach to the Faculty of Information Technology of the University, which was highly approved by the Lecturers and Tutors.

Global Scale POIs Data Analytics and Investigation   *Sep 2022*

- Performed Data Wrangling, Data Analysis, and Data Visualization using R, Python, and Unix Shell to analyze users' check-ins data of 270000+ users coming from over 3680000+ unique venues across the globe.
- Applied Pearson Correlation Feature Selection Techniques, Random Forest Classifier Model, and K-Means Clustering Algorithm models to prove assumptions regarding the causation between customers' behaviors and different conditions of weather.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, Unix Shell

Data Science Libraries: Pandas, Numpy, Scikit Learn, MatPlotLib, GeoPandas, NetworkX, Basemap

Developer Tools: Git, Unix Command Line, GitHub, VS Code, Jupyter Notebooks, RStudio

Skills: Google Suite, Microsoft Office