hazel nguyen

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Education

B.Sc in Business - Finance | B.Sc - Data Science and Statistics **Aug '18 - Dec '22**
Miami University - Oxford, OH Cumulative GPA: 3.87/4.00
University Honors| Scholar Leader| Dean's List (5) | President's List (2)
Coursework: Regression Analysis, Advanced Data Visualization, Machine Learning, Time Series Analysis, Bayesian Statistics, Applied Linear Algebra, Data Structures and Algorithms, Database Management

Skills

- Programming & Database: Python, R, SQL/PSQL, Excel, SAS, Java, CSS, HTML
- Data Visualization: Tableau, PowerBI, Google Data Studio
- Machine Learning: Classification, Regression, Clustering, Tree Models, Neural Networks
- Tools: Microsoft Azure, Oracle Enterprise, MongoDB, AWS

Professional Experience

Digital Analytics Intern, Genpact **Jun '22 – present**

Data Intern **Sep '21 - Dec '21**
CADS | Center of Analytics and Data Science, Miami University - Oxford
- Analyzed 9.7 GB of credit card transactions from Fortune 500 fintech company to identify users' spending habits and compare with Consumer Price Index (CPI) annual report
- Developed functions to categorize merchant codes into items in CPI report and aggregate annual and monthly spending statistics in R

Data Analyst Intern **Mar '21 - Jul '21**
BENIT | Australian-based private company provides IT services and SaaS products, including PTEMagic
- Compiled materials on forex trading, algorithmic trading, and coordinated meetings to analyze Vietnam forex market
- Built functions to select technical indicators and recommend currency pairs in Python, achieved 9.5% expected return during backtesting

Business Intelligence Analyst Intern **Apr '21 - Jul '21**
MISA | SaaS provider of 70,000 Vietnamese governmental units and 150,000 enterprises in 16 countries
- Interviewed 15 sales employees and 5 managers to map business process diagrams and identify key sales metrics and data integrity issues
- Coordinated meetings with engineering and product teams to revise data dictionary of new centralized database system from 25 siloed product databases
- Visualized customer demographics, market share, monthly user retention, etc. on PowerBI and created live automated dashboards to reduce monthly reporting time by 80%

Oracle Database Administrator Intern **Jan '21 - Mar '21**
FPTS | Vietnamese securities company offers services, products on a real-time trading platform
- Wrote procedures and functions in SQL/PSQL to query from data warehouse of over 1 million records for daily reporting
- Researched version updates between Oracle 12c, 11g2, and 19c to contribute to Vietnamese internal database user guide for 100+ employees

Projects

- Chicago Crime Report (R) – Visualized trends and demographic patterns of the Chicago crimes since 2001 to write article about Chicago's state of crime
- Fatality Analysis Reporting System (FARS) Dashboard (R) – Created interactive dashboard in Shiny to visualize trends in fatal accidents
- NOAA's National Centers for Environmental Information Drought Data (R) - Applied various time series forecasting methods – Holt-Winters, SARIMA, cosine-sine – to observe drought trends through time and predicted drought in 1 year within 3 standard deviations
- CIFAR-10 (Python) – Created a convolution neural network architecture with 10 layers and ADAM Optimizer to achieve 82% accuracy after 20 iterations using Tensorflow
- Travel Insurance Prediction (R) – Used binary logistic regression on customer demographic data to predict customers' likelihood to purchase travel insurance with 80% accuracy

Case Competitions

- Winner – Miami University DataFest 2022 (Python/R): Analyzed unstructured gaming data of players' activity, used K-means clustering to classify players and propose future game improvements
- Winner – Miami University DataFest 2021(Python/Tableau): Employed classification and cluster analysis on +5 GB drug usage survey data to identify groups with high exposure to opioid misuse and propose questionnaire adjustments