

Adam Ding

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Technical Skills

Programming Languages Python, R, VBA, SQL, NoSQL, Java, JavaScript

Tools PowerBI, Tableau, Excel, Access, Microsoft Office Suite, SAP, Git, GitHub

Packages & Frameworks Pandas, NumPy, TensorFlow, PyTorch, Scikit-Learn, SciPy, Matplotlib, Seaborn, Jupyter Notebook

Machine Learning Logistic/Linear Regression, Decision Trees, Random Forests, SVM, KNN, Naive Bayes, GBM, XGBoost

Experience

Consulting Intern | THE CLEAN DIVORCE

Remote | Mar 2024 — May 2024

- Led the research and development for website improvements, including CRM integration, which boosted operational efficiency by 25% and improved client management processes.
- Conducted comprehensive competitor research to inform strategic planning and positioning, resulting in a 20% increase in client acquisition through targeted marketing strategies.

Data Analyst | INVERITE INSIGHTS INC

Waterloo, ON, CA | Jan 2023 — Present

- Conducted deep statistical analysis and implemented predictive models in **Python** and **Excel**, including **Logistic Regression** and **XGBoost**, using **Pandas** and **NumPy** to enhance model predictive power and increase loan processing efficiency by 25%.
- Engineered and deployed a machine learning model using **Python** and **SQL**, identifying key risk factors in loan clients and achieving a 90% accuracy rate in predicting loan defaults, while reducing false positives by 30%.
- Designed and implemented an interactive risk assessment dashboard with **Power BI**, integrating real-time data and visualizing the Kolmogorov-Smirnov curve, which enhanced financial decision-making efficiency by 30%.

Data Analyst | WILFRID LAURIER UNIVERSITY

Waterloo, ON, CA | Sept 2023 — Present

- Conducted pioneering statistical analysis of the cataract surgery referral process in the Waterloo-Kitchener region using **Python** and **Excel**, impacting over 7,000 annual procedures by identifying factors contributing to referral delays.
- Developed and refined a multinomial logistic regression model, with **Python**, **Pandas**, **Numpy** and **scikit-learn**, enhancing predictive accuracy by 30% and proposing methods to streamline the referral process and cut wait times by 20%.
- Designed and initiated a detailed simulation of the cataract surgery referral process, identifying and alleviating procedural bottlenecks, projected to enhance resource allocation and reduce patient wait times by an additional 25%.

Underwriting Assistant | INTACT FINANCIAL CORP.

Toronto, ON, CA | Apr 2022 — Oct 2023

- Led processing of insurance policy transactions and creating **Excel** templates to improve efficiency and achieving 95% accuracy.

Projects

Global Logistics Optimization for Airplane Spare Parts | ACADEMIC

2024

- Utilized **Python** and **Excel** to analyze and optimize the global logistics network for airplane spare parts, developing a linear programming model that improved delivery times.
- Designed and executed simulations, achieving over \$4.5 million in operational savings and enhancing overall supply chain efficiency by 48%.

Alzheimer's Disease Image Classification | ACADEMIC

2024

- Leveraged **SQL**, **Excel**, and **Python** to preprocess and analyze large datasets of medical images, identifying critical features for Alzheimer's diagnosis.
- Developed and implemented deep learning models in **Python**, achieving 87% accuracy in classifying disease stages and providing actionable insights for early detection.

Telecommunications Customer Churn Prediction | ACADEMIC

2023

- Utilized **Excel** and **R** to clean and analyze a dataset of over 10,000 customer records, identifying key factors contributing to churn, and developed machine learning models in **R**, achieving 93% accuracy in predicting customer churn.
- Designed an interactive dashboard in **Tableau**, showcasing findings and providing actionable recommendations, which improved customer retention rates by 15%.

Education

M.Sc in Management Analytics | WILFRID LAURIER UNIVERSITY

Waterloo, ON, CA | 2024

- GPA: 4.0 | Relevant Courses: Machine Learning, Artificial Intelligence for Business, Applied Econometrics, Supply Chain Analytics, Marketing Analytics, Financial Analytics

DeepLearning.AI | DEEP LEARNING SPECIALIZATION

Virtual | 2024

B.Sc in Bioinformatics (CS Conc.) | UNIVERSITY OF WATERLOO

Waterloo, ON, CA | 2022