

Vera Ding

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EDUCATION

University of Windsor, Windsor, ON

Master of Applied Computing, 2021

- Cumulative GPA: 88/100
- Relevant Coursework: Advanced Database, Networking, Distributed System, Machine Learning and Optimization

Purdue University Northwest, Indiana, US

Exchange Program in Engineering, 2017-2018

- Relevant Coursework: Java, Software Engineering Design, Cybersecurity

Shanghai Dianji University, Shanghai, China

Bachelor of Computer Science and Technology, 2019

- Relevant Courses: Data structure, Algorithms, Object Oriented Programming, Networking, Big data Analysis

EMPLOYMENT EXPERIENCE

Longos, Toronto, ON

Supply Chain Data Analyst, July 2021 – April 2022

- Maintained current DC metric reports and collaborate with DC team to ensure proper interpretation and data accuracy.
- Monitored real-time data as well as initialized and improved key KPI reports with attention to detail to provide periodical analysis for over 30 KPIs to DC managers.
- Drove the design and build of visualizations using Power BI by utilizing optimized data reports.
- Conducted the market research to promote product via social media by analyzing and visualizing the users' demographics
- Standardized and reconciled measurement labour usage for departments to deliver responsive feedback.

Technology department of Ivybridge Investment Management Co. Ltd., Shanghai, China

Web Developer Internship, July 2018 – August 2018

- Tested competitors' websites, outlined plans to fix the vulnerabilities of home website from attacks to improve website quality and promote site ranking from search engine (e.g. Google and Baidu) with white hat techniques

PROJECT EXPERIENCE

Movie Box Revenue Forecast - Python

- Visualized income data of 3000 movies from The Movie Database (TMDb) and mapped on descriptive analysis with Python
- Selected the effective factors on movie revenue by calculating the Pearson correlation and checking scatter plot
- Simulated artificial selection process by decision tree to identify the crucial factors to the revenue for film investors
- Forecasted the movie revenue with linear regression, random forest and boosting, and validated with k-fold analysis
- Applied the randomized search techniques to tune the hyper parameters and improved 26% forecast accuracy on MSE

Emotion Analysis in Posts under Pandemic – Python, MySQL, Excel, IBM Watson

- Leveraged API to scrap and store over 10k posts under pandemic from social media (Twitter and Weibo) to MySQL database
- Analyzed the changes of emotion over time through ranking keywords in posts by frequency with Word Cloud plots
- Classified sentiments in categories and identified top three moods in China and other countries with IBM Watson Tone Analyzer; created a dashboard with visualization plots via Excel to distinguish the difference effectively

EXTRA-CURRICULAR ACTIVITIES

Student Union, Shanghai, China

Director of Events Department

- Outlined agenda and successfully sourced sponsorship of over \$4K to support an orientation Gala with over 300 people

PROFESSIONAL SKILLS AND CERTIFICATE

- **Programming Skills:** Proficient in Python, SQL, JavaScript, C++ | Intermediate in Linux, AWS, IBM Cloud
- **Python Libraries:** Pandas, Numpy, Seaborn, Matplotlib, Keras, scikit-learn, Weka Explorer, NLTK
- **Data Visualization Tools:** Tableau, Microsoft Series
- **Certificate:** Databases for Node.js Developer (LinkedIn), Learning MongoDB (LinkedIn), Big Data 101 (Cognitive Class)