Yuping Fan

BSc Data Science, University of Manitoba

+1 4165609195 frankypfan@gmail.com Winnipeg, Canada

Education

BSc Data Science *University of Manitoba* **Winnipeg, Canada** *2019-2024*

Relevant Courses: Computer Science, Statistics, SQL, R, Python, C, Java

MSc Organic Chemistry *University of Chinese Academy of Sciences* **Beijing, China** *2002-2005*

BSc Chemistry *Yunnan University* **Kunming, China** *1998-2002*

Work Experience

- **Org. Process Res. Dev Engineer, Group Leader** *HEC Pharm* **Dongguan, China** *2009-2018*

  Relevant API Projects: Fingolimod; Entacapone; Olanzapine;Esomeprazole;Aripiprazole;Febuxostat

- **Senior Scientist, Organic Synthesis** *WuXi AppTec* **Shanghai, China** *2009*

  Related Pharmaceutical Companies: Merck etc global top pharmaceutical companies

- **Research Assistant** *Peking University* **Beijing, China** *2005-2009*

  Relevant Projects: Design, Synthesis, and Activity Assessment of Kanamycin A Derivatives

Training & Professional Certificates

- IBM Data Science Professional Certificate (2023) - IBM
- Google Advanced Data Analytics Professional Certificate(2024) - Google
- DeepLearning.AI Machine Learning Specialization (2023) - Stanford University

Projects

- **Transportation Analytics - Predicting Driver Availability** *UM Capstone Project* **Winnipeg, Canada** *2024*

  Developed and Compared neural network model LSTM, traditional statistical model SARIMAX, and Facebook developed model Prophet in time series dataset, reveals that neuron network model fits the best, acquired accuracy 0.99

- **Credit Card Fraud Detection** *Real World Dataset Project* **Winnipeg, Canada** *2023*

  Applied several highly unbalanced dataset processing methods, includes PCA, stratified sampling, oversampling, standard scaler on the dataset, compared models: logistic regression, random forest, support vector machine and neural netowks

- **Space X Falcon 9 First Stage Landing Prediction** *IBM Data Science Capstone* **Winnipeg, Canada** *2023*

  Use machine learning to determine if the first stage of Falcon 9 will land successfully. Using training data to find the best hyperparameters for SVM, Classification Trees, and Logistic Regression, then find the method that performs best.

Skills

- **Data Science and Programming:** Machine Learning, Deep Learning, Statistical Analysis, Data Processing, Data Visualization, Mathematics, Data Wrangling, Time Series Forecasting, Python (NumPy, Pandas, TensorFlow, Scikit-learn, Matplotlib), R (ggplot2, dplyr, Tidyverse), SQL, SAS, GitHub, Jupyter Notebook
- **Soft Skills:** Presentation, Planning, Organization, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

Summary

I am a BSc in Data Science graduate from the University of Manitoba, proficient in R, Python, and SQL. I have demonstrated expertise through projects like predicting driver availability using Neural Network and SARIMA models. I am seeking a position such as Data Scientist, Data Analyst, Data Engineer, or Business Analyst.

Previously, I worked in the pharmaceutical industry includes data collection, processing, and reporting, conducting data analysis and preparing reports for senior management.

These experiences, combined with my chemistry background, have fueled my passion for data science. I am eager to apply my skills and knowledge to a data-related career, contributing to impactful solutions.