MINGKUN(KEVIN) WANG

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EDUCATION

University of Toronto   *September 2017 - Present*
Bachelor of Applied Science (BASc) in Industrial Engineering   CGPA: 3.85, SGPA: 3.9
Focus in Applied Artificial Intelligence, Operations Research and Engineering Business
Pursuing Minor in Artificial Intelligence Engineering Minor and Engineering Business Minor

RELEVANT EXPERIENCE

Intern - Data Scientist   *June 2020 - Apr 2021, Unity Health Toronto*

- Analyzed & proposed new medical resident schedule to reduce staff utilization by 10%

- Developed core functions & data pipelines for patient arrival forecasting dashboards

- Developed test scripts & reports for forecasting model/optimization model validation

- Deployed simulation model web app to optimize outpatient process at Providence Healthcare

Financial Modelling - School Projects   *Jan 2020 - Present, University of Toronto*

- Implemented Online Portfolio Selection (OLPS) algorithms in Python

- Performed data cleaning and pre-processing for real US stock data for stock analysis & comparison

- Implemented FamaFrench three-factor model and 3-dimensional PCA model to analyze the returns of stocks with 0.417 and 0.66 R-squared values respectively

Option Pricing Project - Machine Learning   *May 2019 - Dec 2019, University of Toronto*

- Collected, cleaned and processed over 2-million data obtained from WRDS

- Performed EDA and data visualization to identify any potential underlying pattern

- Built and fine-tuned the deep regression model with 0.997 R-squared value and 0.81 MAE

- Visualized model performance (histogram, heatmap, etc) for presentation and reports

SNACKKR Health App - Web Application   *Sept 2019 - Dec 2019, University of Toronto*

- Built a personal health management application with basic health info, food tracking, and automated personalized food recommendation using Java and HTML

- Worked as project manager and chief Back-End developer to lead the team at all perspectives

- Modified and implemented information retrieval system and simple recommender system

- Utilized GitHub to coordinate combine partial work all into a single project

TECHNICAL STRENGTHS

Modeling & Software	Python, R, SQL, Java, VBA, HTML, MATLAB (basics)
Analysis & Tools	GitHub, Latex, MS Office, Visual Studio, RStudio, Eclipse