Daniel Fan

Data Scientist. Machine Learning Engineer

I love creating new technology that impact people in meaningful ways.

EXPERIENCE

Data Scientist

Fonterra May 2018 - Present

- Performed transport optimization that resulted in a reduction of over $800,000 in annual operating costs.
- Extracted insights from historic sales data and devised plans for fuel procurement with savings of over $500,000.
- Built a R&D tool for product development using multivariate models to describe the relationship between taste and ingredients. Reduced average product development cycle timeframe by 30%.
- Built python graphical dashboard to surface the data for the detection of anomalies that enabled root cause detection and reduced manufacture downtime by 20%.
- Supervised engineer on building machine learning solution to delivery .
- Created mathematical models to perform descriptive and predictive analytics on data.
- Engaged stakeholders in advisory role to bridge the business use case to technical solutions.
- Collected and cleaned data for use in insight extraction.
- Lead team workshops to enable technical development and upskilling.

Chief Data Scientist

Debatebot Nov 2017 - Aug 2019

- Designed data pipeline to ingest 60 million academic papers into a graph database.
- Applied natural language processing methods to extract topics and summaries from articles.
- Designed and trained deep neural network for semantic text understand and topic extraction

Research Volunteer

Binghamton University Oct 2017 - Dec 2017

- Facilitating gathering of materials and data for various research projects and reports.
- Assisting with the preparation of experiments and collection of experimental data.
- Responding to faculty and student requests for lab service.
- Summarizing research results and preparing academic manuscripts

Teachin Assistant

Binghamton University Aug 2015 - May 2017

- Troubleshooted student Arduino projects and instructed the construction of corresponding circuits.
- Instructed students in coding concepts in using MATLAB.
- Guided project team to first place in their freshmen Practical Engineering Design project

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SKILLS

Python
MATLAB
Machine Learning
Deep Learning
Neural Network
SQL
Classification
TensorFlow
Optimization
Tableau
R Programming
Data Science
Scikit-learn
Pandas
NLP
Consulting
Project management
Stakeholder management

EDUCATION

Master of Science

Binghamton University

May 2017

Electrical and Computer Engineering, GPA 3.9

Master of Engineering

The University of Auckland

May 2014

Electrical and Electronics Engineering

Bachelor of Engineering

The University of Auckland

Apr 2012

Electrical and Electronics Engineering