Nathaniel Watkins

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Data Scientist, Machine Learning

Seattle, WA

A dedicated manager turned Machine Learning Engineer, enthusiastic for the innovative ways technology can impact people. I developed excellent communication, leadership and reporting skills on my previous path, but I yearned for a fulfilling challenge better aligned with my technical/ engineering background. Now I've seized the moment and transitioned into an exciting career in Big Data/Artificial Intelligence/Data Science, building expertise in Mathematics, Analysis & ML!

Skills

Python | Data Analytics

Machine Learning | TensorFlow | Keras
Research | scikit-learn | Statistics | SQL | SciPy
Google Cloud Platform (GCP) | Report Writing
Data Visualization | Collaboration | Neural Networks

Projects

NYC Taxi Fare Prediction Capstone

Udacity & Kaggle Competition   09/2018

- Successfully deployed a state-of-the-art Wide and Deep TensorFlow regressor framework
- Production-ready and scalable in Cloud ML Engine
- EDA and trained with 55 million row dataset
- Placed within top third on the leaderboard with 3.26 RMSE (within 2 points of the top score)

Reinforcement Learning Quadcopter

Udacity   07/2018

- Trained a drone simulation to maintain stable flight within 300 episodes
- Implemented a cutting-edge Deep Deterministic Policy Gradients (DDPG) Actor/Critic model

Recycle Bits

Hackathon   02/2018

- Earned 2nd place using Computer Vision and Microsoft Azure APIs to classify trash into distinct categories of Recyclable, Compostable or Refuse
- First implemented as a responsive web app for consumers, with a leaderboard system
- Also envisioned a business plan to create smart trash cans and automated industrial trash sorting

Education

Machine Learning Engineer Nanodegree

Udacity   01/2018 — 09/2018

- Mastered Model Training/Testing/Evaluation, Supervised Learning, Classification, Prediction, Deep Learning, Unsupervised Learning, Clustering & Reinforcement Learning via exceptional projects

Machine Learning with TensorFlow on GCP

Coursera   07/2018 — 08/2018

- 5-course specialization on how Google creates deployable ML models for large-scale needs

Introduction to Programming Nanodegree

Udacity   09/2016 — 01/2017

- Learned HTML, CSS, Software Design, Debugging, Python, Pandas, NumPy, matplotlib & Data Analysis

Experience

Student Mentor, Programming   Remote/Gig

Udacity   11/2017 — Present

- Perform code reviews with constructive feedback
- Advise & Teach students
- Consistent 5-Star ratings
- Troubleshoot & Motivate through challenges

Software Development Student   Seattle

Self   07/2016 — Present

- Computer Science | Statistics | Linear Algebra Calculus | Algorithms | Machine Learning

Property Management   Seattle & CA

Essex & W.N.G.   05/2009 — 07/2016

- Managed 7 people | Grew business 7% | Awarded for customer satisfaction | Reduced turnover 42%