Will Wright

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Profile

Data scientist with 5 years experience in statistical modeling and machine learning. Planned and executed end-to-end projects in data modeling, prediction, and pattern recognition. Enjoys self-learning and deep dives to understand high- and low-level details. Seeking a role in a dynamic environment to collaborate across teams and deliver value-drive analytical solutions.

Highlights

- Statistical / ML modeling
- End-to-end data pipeline design
- Data analysis / visualization
- Predictive modeling
- Leadership, collaboration
- Industry experience

Professional Experience

Researcher and Software Engineer (Intern) - Apple 2016

- Prototyped ML algorithms to inform the direction of an autonomous systems project
  - Lead cross-team project to determine best method for predictive model problem
  - Performed fast, iterative algorithm testing on distributed data sets
  - Delivered report and presentation summarizing findings, directing team
- Developed production-level code for group-wide core library
  - Collaborated across teams to identify needs and integrate codebase
  - Developed and tested performance critical code for embedded systems project

Assistant Instructor - CSU, East Bay 2011 - 2013

Middle School Teacher - Academy of Alameda, Alameda CA 2010 - 2011

High School Teacher - Delta Academy, Antioch CA 2009 - 2010

Selected Projects

Classification / Prediction - NBA Game Outcomes 2019 - 2020

- Created complete pipeline for data collection, processing, visualizing, and modeling
- Identified best candidate features and algorithms for game outcome prediction

Pattern Recognition - Image Segmentation 2018 - 2019

- Developed end-to-end software package to partition images into meaningful subregions
- Created faster algorithm, decreased runtime by 80-95% for large images

Signal / Image Recovery and Denoising - X-ray / Microscopy 2017 - 2019

- Created data visualization strategy to optimize algorithm, decrease runtime by 50-90%
- Showed our algorithm is better at denoising than other algorithms (wflow, HIO)

Education

PhD Mathematics - University of California, Davis 2019

- Dissertation: An Improved Descent Method for Noisy Phase Retrieval
- Coursework in mathematical foundations of machine learning and data science

MS Applied Math - CSU, East Bay 2013

- Tracewell Scholarship (2012), Sabharwal Scholarship (2011)

MA Teaching - Concordia University, Portland OR 2009

BS Political Science and Philosophy - Penn State 2006

Key Skills

- Python, C++, MATLAB, Git
- ML tools (scikit-learn, pandas)
- Team-focused, creative, flexible
- Research, technical writing

Interests

Running, brewing beer, hiking, guitar, audiobooks and podcasts