SEPEHR SADIGHPOUR

DATA SCIENTIST

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Profile

Entrepreneurial data scientist with experience building products using machine learning in the healthcare space.

Strengths

Machine Learning

Training production-ready models to power products, leveraging latest research where appropriate

Data Engineering

Deploying models through scalable micro-services, building data pipelines, containerizing processes

Product Growth

Identifying growth levers using data, designing A/B tests, communicating analyses to stakeholders

Experience

Omada Health

Apr 2016 - Jul 2017

Data Scientist

Guided product direction via analyses of trends in participant behavior, leading to 6% lift in user engagement

Trained and productionized models to efficiently direct internal resources

Managed 4-person data team's research into areas such as chatbots, reinforcement learning, and machine vision

Conceived, socialized, and A/B tested new features in close collaboration with engineers and designers

LabQuo

Jun 2017 - Present

Technical Co-founder

Prototyping a service marketplace for science labs

BayThrive

Jan 2010 - Oct 2015

Owner, Developer, Project Manager

Increased traffic 20x and conversion rates 4x for biotech sales firm through SEO and iterative design

Built development and production infrastructure for early-stage startup using Docker and Ansible

Developed heuristic for financial research firm to estimate degree of self-similiarity in time-series data

Mepkin Abbey

Jun 2008 - Jan 2010

Webmaster, Go-To Guy

Directed development of custom registration system from need-assessment to hiring and project management

Built website, e-commerce solution, and established processes for inventory management and online sales

Education

Galvanize University

Oct 2015 - Jan 2016

Data Science Fellow

Capstone Project: Built information-retrieval app for discovering scientific articles using document vectors

Duke University

Class of '08

Bachelors of Science, Physics

Capstone Project: Trained neural networks to solve energy states of quantum systems

Technical

Modeling: scikit-learn, H2O, Vowpal Wabbit, modelr, LIME

NLP: Spacy, gensim, fastText, WordNet, ChatterBot, NLTK

Deep Learning: fine-tuning pre-trained neural networks

ETL: Airflow, Luigi, Docker (for advanced transforms)

Infra: AWS (EC2, EB, API Gateway, Lambda, ECS, S3, Redshift)

Software: Flask/Django, PHP, git, bash, RESTful API design

Analysis: Pandas/R/SQL, Bayesian and frequentist A/B testing

Experimentation: Experiment design, multi-armed bandits

Viz: D3.js, ggplot, R Shiny, Plotly