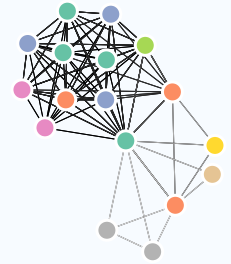





JOSHUA GOLDBERG

Data scientist proficient in statistics, machine learning, and software engineering. Comfortable with R, python, SQL, and C++ using functional programming and object-oriented design. Examples of my work include machine learning models to optimize sales and marketing programs with an estimated impact of \$1 million net revenue annually at a financial institution; I have also built/maintained models to detect risky behavior across millions of third-party sellers on amazon.com¹. Outside of work, I enjoy distance running, reading, and developing/implementing algorithms² in C++.



INDUSTRY EXPERIENCE

- Current
|
2020
- **Data Scientist**
Amazon  Seattle, WA
- Build machine learning models to detect Amazon seller fraud activity
 - Manage ETL pipelines to enable automated work-flows
 - Maintain model efficacy through retraining and error analysis
 - Create software tools to monitor machine learning models in production
- 2020
|
2017
- **AVP, Lead Data Scientist**
Nuveen  Chicago, IL
- Pioneered end-to-end (execution and experimental design) deep learning time series model for client onboarding; estimated impact of the model was \$1 million net revenue annually that maximized client journey (improvement in client retention, client growth, etc.)
 - Built recommendation engine for 150,000 clients in 50+ products
 - Presented model/analysis to executive management; results included model adoption by 100+ sales people and a significant increase sales for clients treated by the model
 - Conceptualized and created simulation engine that isolated, detected and measured the ROI impact of company sales events
- 2017
|
2014
- **Senior Equity Research Associate, Financial Services**
Raymond James Financial, Inc.  Chicago, IL
- Built company and industry models using finance and statistical techniques, including regression and discounted cash flows (DCF)

EDUCATION

- Current
|
2021
- **Graduate Certificate in Software Design & Development**
University of Washington Bothell  Bothell, WA
- C++ data structure & algorithms, object-oriented design and programming, systems programming, and software planning and development

View this CV online with links at
<https://goldbergdata.github.io/cv>

CONTACT



josh.goldberg1@outlook.com

 [Twitter](#)

 [Github](#)

 <https://joshuagoldberg.name>

 [LinkedIn](#)

LANGUAGE SKILLS

R

SQL

C++

Python

Bash

HTML/CSS

Javascript

- 2021 ● **Computer Science Coursework**
Edmonds College 📍 Seattle, WA
 • C/C++ Data structures & algorithms, object-oriented design and programming
- 2020 ● **M.S. in Analytics**
University of Chicago 📍 Chicago, IL
 • Coursework in statistics, linear algebra, machine learning, and deep learning
- 2013 ● **B.S. in Accounting and Finance**
University of South Florida 📍 Tampa, FL

➤ SELECTED CODE REPOSITORIES

- 2021 ● **Machine learning decision tree and data frame implementation in C++³**
Github 📍 Seattle, WA
 • Authored with John Nguyen
- 2020 ● **Generative adversarial network used to generate musical samples⁴**
University of Chicago 📍 Chicago, IL
 • Capstone project and paper⁵ authored with Terry Wang and Rima Mittal. Supervised by Yuri Balasanov⁶

👤 TEACHING EXPERIENCE

- Current | 2020 ● **Data Understanding via SQL, Databases, and R**
University of Chicago 📍 Remote
 • TA and lecture
 • Topics include introduction to databases, MySQL, and R
- Current | 2020 ● **MastersTrack Statistics for Machine Learning**
University of Chicago 📍 Coursera
 • TA and lecture
 • Topics include simple and multiple regression, logistic regression, hypothesis testing, variable transformations
- Current | 2020 ● **MastersTrack Machine Learning**
University of Chicago 📍 Coursera
 • TA
 • Topics include a survey of machine learning algorithms: kNN, support vector machine, decision tree, random forest, boosted trees, and clustering algorithms

In my free time, I enjoy working with friends, peers, and colleagues on algorithm designs/implementations. Recently, we built data frame and decision tree classes in C++.

I am passionate about teaching and helping others. It brings me joy and satisfaction to teach others new skills.