Alan Polyak
Data Scientist and Data-Driven Product Manager

A team leader, data scientist, developer, and designer passionate about creating a meaningful impact on the world through artificial intelligence, data visualization, information ethics, and novel technologies. I am a graduate student at Cornell University, combining my studies of data science and management with social and visual design.

Education

05/2020 — **Cornell University**
MEng Data Science | Operations Research and Information Engineering
- **Teaching Assistant** | INFO 4240 - Designing Technology for Social Impact
- **GPA** | N/A

05/2019 — **Cornell University**
BS Statistics & Data Science | Computer Science & Machine Learning
Minors in Applied Economics | UX Research & Design | Business
- **VP of Internal Relations** | HAVEN - Cornell's LGBTQ+ Student Union
- **GPA** | 3.6/4.0

Work Experience

09/2018 - 01/2019 — **Machine Learning Engineer**
Cornell University Sustainable Design (CUSD) | Ithaca, NY
- Deployed predictive and optimization models using data from intelligent sensors and wearables to learn user's HVAC system usage and room occupancy.
- Developed a system that offers substantial energy savings by applying computer science and electrical engineering.

05/2018 - 08/2018 — **Data Scientist and Product Management Intern**
VISA | San Francisco Bay Area
- Built an original natural language processing algorithm for fuzzy matching, which resulted in $6MM added value through product data enrichment.
- Worked in a cross-functional team environment to deploy probabilistic classifier ML models for payment service provider categorization in transaction data.
- Utilized survival analysis and time series for predictive product analytics.

08/2017 - 05/2018 — **Head of UX and Front-End Engineering**
Cornell Web Development | Ithaca, NY
- Conducted UX research with a data-driven approach to better understand user preferences through web data analytics and A/B testing.
- Managed a team of developers from project conception to deployment using the agile software development framework and numerous iterations.
- Administered and taught public classes on JavaScript and web design.

08/2017 - 12/2017 — **Data Analyst**
Elephant Listening Project | Dzanga Bai, Central African Republic | Ithaca, NY
- Saved a total of 4 endangered African elephants from poachers with AI.
- Tracked elephants in real-time with signal processing.
- Helped create a machine learning classifier on live incoming soundwaves.

Projects and Accomplishments

12/2018 — **Data Mining and Machine Learning for Multi-Class Job Classification**
Kaggle | Google | https://bit.ly/32uzAvM
- Predicting what job you're best suited for at Google using feature engineering, text mining, naïve bayes, random forest, logistic regression, and LASSO.

07/2018 — **Finalist - Global Hackathon 2018 - Deep Learning**
VISA | San Francisco Bay Area
- Pioneered a novel approach to fraud detection that incorporates layers of deep learning systems to reduce false positives and chargebacks, saving companies $Billions yearly within the payments industry.

Personal Info

Contact
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LinkedIn
linkedin.com/in/alanpolyak

Professional Website
alanpolyak.github.io

Technical Skills

Python | Java | Scala | MATLAB | VBA
R | SQL | Hive | GIS | Tableau | D3.js
Hadoop | Spark | MapReduce | Pig
JavaScript | PHP | CSS | HTML | jQuery
NLP | Data Mining | Machine Learning
Photoshop | InDesign | Illustrator | Sketch
Agile Development | Microsoft Office Suite

Relevant Coursework

Machine Learning for Intelligent Systems
Technical Product Management
Advanced Statistical Modeling
Statistical Data Mining and Time Series
Data Structures and Algorithms
Multivariable Calculus and Linear Algebra
Big Data Management and Analysis
Probability and Statistics Theory
Optimization and Operations Research
Stochastic Processes and Modeling
Interactive Data Visualization
Technology Design for Social Impact
Web Programming and Design
Micro and Macro Economic Theory
Finance | Marketing | Accounting

Languages

Russian | Ukrainian
●●●●● Native

Spanish | Polish
●●●●○ Advanced

Chinese
●●○○○ Basic

Personal Interests

Photography | Borscht | Samoyeds
Activism | Kombucha | Queer Theory