MAX EFREMOV

maxim.efremov@gmail.com | 443.955.9584 | maxefremov.com | LinkedIn | GitHub | Kaggle

SUMMARY of KEY QUALIFICATIONS

- Data scientist and machine learning engineer with cross-functional end-to-end model and product development experience
- Strong understanding of mathematical and statistical foundations and excellent ability to identify and present insights in clear, concise, compelling manner

EDUCATION

Lambda School, remote   June 2020
Data Science Fellow
A 9-month, 1,600+ hour data science and software development program with a concentration in statistics, machine learning and real-world model development, validation, and deployment

- Sample of Real-World, Cross-Functional Projects
  - Consumer credit-scoring algorithm ◦ NLP web search tool ◦ Spotify database song recommender ◦ Image classification application ◦ static and dynamic web pages ◦ AI Twitter application that predicts user origin of any inputted tweet
- Data Engineering and Infrastructure
  - Data Mining & Wrangling ◦ APIs and Web Scraping ◦ Data cleaning ◦ Databases ◦ Amazon Web Services (AWS) ◦ GitHub
- Machine Learning and Advanced Prediction
  - Natural Language Processing ◦ Neural Networks ◦ CNNs for computational imaging ◦ XGBoost for ensemble learning

Towson University, Baltimore, MD   May 2019
Bachelor of Science in Economics cum laude; honors college

- Member of Honors College; GPA 3.84, Dean's List every semester; studied abroad at Yonsei University in Seoul, South Korea
- Econometrics, Statistics, Computational Economics, Macroeconomic Theory, Microeconomics, Money & Banking, Finance

PROJECT EXPERIENCE

Center for Advanced Defense Studies, Washington, DC   January – March 2020
Data Science Technical Consultant, SanctionsExplorer
Led development of machine learning search and analytics-visualization web application on small cross-functional team that provides information pertaining to internationally-sanctioned entities from 100s of government agency databases and reports

- Deployed continuously web-crawling, natural language processing (NLP) and named entity recognition (NER) model; features include probabilistic entity extraction from narrative-style, unstructured text
- Continuously tested, persistently deployed, routine automatic updating; hosted as full-stack web application with team of 3 data scientists on a tech stack of Python, Flask, spaCy, and AWS Elastic Beanstalk, CodePipeline, Route 53

Pic-Metric, Cross-team remote   November – December 2019
Machine Learning Engineer, PicMetric
Batch user image object detection and classification web application; computer vision models perform static image or live object detection

- Deployed YOLO, ResNet50, and MTCNN models as Flask web application with user authentication and login functionality
- Developed and tuned vision models in AWS SageMaker, hosted continuously on EC2

WORK EXPERIENCE

Morgan Stanley, Baltimore, MD   June 2018 – August 2018
Analyst, Legal & Compliance Division
Supported Wealth Management compliance teams in their testing, audit, and reporting functions during summer program

- Enhanced controls around a firm-wide global blacklist pertaining to internationally sanctioned entities, through which every account opening and 10,000,000s of transaction at the firm pass through every day
- Reviewed millions of securities transactions other business activities of firm's 15,000 financial advisers to ensure compliance with the complex regulatory and legal environment

AmeriCorps National Civilian Community Corps, IA, NE, MI, IL
Field Team Leader   January 2014 – November 2014
Led a highly diverse team of 9 young adults in a year-long federal, national community service program throughout American Midwest

COMMUNITY LEADERSHIP

- *Group Facilitator,* **Baltimore Artificial Intelligence Forum**, October 2019
- *Assistant Head Coach,* **Baltimore City High School Men's Lacrosse Program**, January – April 2016
- *Disaster Response - Team Leader*, **All Hands Project Detroit**, January – February 2015