SASHA KAPRALOV

MACHINE LEARNING AND STATISTICS

CONTACT

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EDUCATION

2011

UNIVERSITY OF COLORADO, DENVER

MA, Economics

GPA: 3.87

UNIVERSITY OF SOUTHERN CALIFORNIA

BA, International Relations

TECHNICAL SKILLS

- Programming Python, SQL, SAS
- Machine Learning computer vision (object detection, semantic segmentation), classification algorithms, clustering
- Statistics hypothesis testing, causal inference (econometrics), power analysis, generalized linear models, limited dependent variable models, mixed models, survival analysis, longitudinal/panel data analysis
- Databases and Big Data AWS (S3, EC2, CLI), PostgreSQL, Teredata, Google BigQuery
- Tools Jupyter, VSCode, Git/Github, Azure DevOps, SVN
- Visualization and Storytelling Excel, Tableau

LEADERSHIP / COMMUNICATION

- Stakeholder engagement
- Team management
- Coaching / mentoring
- Project management
- Written and oral presentation

EXPERIENCE

February 2020 - July 2020

Senior Data Scientist | Emendata, LLC | Burlingame, CA

- Developed SQL scripts to query and analyze billion-record scale Medicare Teradata database
- Evaluated and refined the methodology and Python script of a neural network model for predicting Medicare patient-level payment error, incorporating functional programming, logging, and documentation
- Prepared specifications for regression analysis for predicting the complexity of a patient's medical record review during a risk adjustment data validation audit
- Developed spatial and temporal metrics to identify potential cases of fraud by telemedicine providers during the COVID-19 period
- Designed and conducted training sessions on clustering methods techniques for junior analysts

January 2018 - January 2020

Data Scientist | Seecure Systems, Inc. | Belmont, CA

- Implemented validation of neural network models in TensorFlow for a pilot computer vision model for predicting human behavior in public spaces
- Developed a pipeline to capture and process real-time streaming video using command line tools and Python

April 2012 - January 2017

Senior Programmer Analyst | Acumen, LLC | Burlingame, CA Projects

- Developed predictive risk adjustment model assessing probability of adverse clinical outcomes
- Led a team of five programmer analysts to implement a propensity score matching model using over 300 covariates constructed from clinical, demographic, and survey data
- Developed linear and survival difference-in-difference models estimating effects of policy changes on patient outcomes
- Designed negative binomial regression models modeling historical trends in outcomes and predicting and flagging significant changes for client's awareness
- Oversaw design and programming implementation of automated monthly KPI reports that informed multiple stakeholders of healthcare providers' progress on achievement of quality performance goals

Leadership and Communication

- Presented results of team's work at annual CMS Healthcare Quality Conference in Baltimore. MD
- Led team presentations to governmental agencies and other stakeholders, providing findings and interpretation of data analyses
- Contributed to three published peer-reviewed research articles