SAM (OSAMU) TEMLOCK

linkedin.com/in/samtemlock • github.com/stemlock • stemlock@berkeley.edu • (518) 961-7462

PROFESSIONAL PROFILE

Data scientist with experience in delivering innovative, production quality machine learning applications. My goals are to add value and diversity to my team, seek challenging problems, and make real-world impact by building robust and equitable solutions.

EDUCATION

University of California, Berkeley: *May 2022 (Anticipated)*
- Master of Information and Data Science; GPA - 4.00

Rensselaer Polytechnic Institute (RPI):   *Aug 2015 – May 2018*
- BS in Computer Systems Engineering, Minor in Psychology

EXPERIENCE

Indeed – SMB, Data Science Intern   *May 2021 – Aug 2021*
- Developed an end-to-end pipeline hosted on AWS of a proof-of-concept reinforcement learning, Double Q Network agent to automate job posting optimizations, leading to an average increase of 20% in job applications received
- Analyzed contributions of job posting optimizations towards job applications received via SHAP values from several ensembled decision tree models
- Performed analysis and identified employer-side actions that lead to both increase in revenue and positive job posting KPIs via feature importance values extracted from a logistic regression model

ProMazo – Data Scientist, Contractor   *April 2021 – Aug 2021*
- Performed research into the efficacy of a variety of time-series models (variations of ARIMA, GLS regression, kernel regression) in forecasting the rate of auto-collisions for a multi-billion dollar insurance provider
- Presented high-level research findings to non-technical executive level stakeholders in recurring demo meetings
- Developed a modeling pipeline including model simulation, preprocessing, feature selection, model building and validation

UC Berkeley – D-Lab, **Senior Data Science Fellow (Part-time)**   *Aug 2021 – Present*
- Partake in research talks, instruct workshops, and provide consulting services as part of the Data Science Lab for Social Sciences to help foster the growth of data science practices among the broader UC Berkeley community

Deloitte & Touche – Cyber Risk, Cyber Risk Senior Consultant   *Sep 2018 – Sep 2020*
- Assisted with development and deployment of IoT medical device cybersecurity application to handle 1000s of critical endpoints, with automated analytics and tailored dashboards with actionable insights for executives and security teams
- Managed the development of a multi-million dollar OT Cybersecurity Program for a large pharmaceutical company in a Project Manager role, translating technical strategy and solutions to non-technical C-level executives

OTHER PROJECTS

Facial Key Point Detection with CNNs (Python, TensorFlow, OpenCV), *UC Berkeley*   *2021*
- Developed a CNN model with a RandAugment strategy to perform facial key point detection with a 1.689 test RMSE
- Implemented various data augmentation techniques to be used in random combinations to transform training data

Topic Classification of News Using Machine Learning (Python, TensorFlow, Sklearn, NLTK), *UC Berkeley*   *2021*
- Implemented a CNN with Word2Vec embeddings to perform news topic classification with ~80% accuracy
- Applied various NLTK preprocessing techniques with shallow learning models, achieving ~78% accuracy

EdTech Data Pipeline on a Cloud Cluster (Docker, Kafka, Spark, Hadoop, MapReduce, SQL), *UC Berkeley*   *2021*
- Built a big data pipeline to handle distributed computing on EdTech assessment data, speeding up processing by 10x

Demographics and Policy on COVID-19 Case Rate Linear Regression Study (R), *UC Berkeley*   *2020*
- Developed multiple linear regression models and identified a ~300x correlation effect between reduction in case rate and mask policies compared to that of case rate and demographics

Yelp-Powered Activity Manager and Recommender Application (Python, Yelp API), *UC Berkeley*   *2020*
- Designed an activity list manager application integrated with Yelp Fusion API to query for multiple stores in parallel that match the activity descriptions using customized search options to recommend matches

Proprietary Splunk Medical Device Cybersecurity Analytics Application (Bash scripts, Splunk), *Deloitte*   *2019*
- Assisted with development and deployment of IoT medical device cybersecurity application to handle 1000s of critical endpoints, with automated analytics and tailored dashboards with actionable insights for executives and security teams

SKILLS

Software
- Python (Pandas, NumPy, scikit-learn, Keras/TensorFlow, Seaborn, Matplotlib), R (RStudio, ggplot2, dplyr), SQL, Bash, C++, C; Git, GitHub, Jupyter Notebooks; Spark, Hadoop, MapReduce, Kafka, GCP, AWS, Docker, MySQL, PostgreSQL; Unix/Linux, MacOS, Windows; Microsoft Office Suite (Word, Excel, PowerPoint); Agile

Foreign Languages
- Japanese – Fluent

AWARDS/PUBLICATIONS

Deloitte Applause Award   *2018, 2019*
Patel, V & Temlock, S (2018). iLight. *The MANE Journal* 3: 61-64   *2018*