EVAN SHRESTHA

evanshrestha.com ⋄ evanshrestha@gmail.com ⋄ github.com/evanshrestha ⋄ linkedin.com/in/evanshrestha

EXPERIENCE

Amazon, Applied Scientist — Oct 2021 – Present

- Performing NLP on customer service communications to measure agent performance

Travelers, Data Scientist — Aug 2020 – Oct 2021

- Built BERT-based classification model to predict if a claim will receive no benefits, be investigated, or be denied
- Optimized model scoring pipeline through quantization, multithreading, and algorithm refactoring
- Developed real-time model to capture paymentless claims from ideation to training and implementation
- Trained, implemented, and designed A/B tests for models to direct nurse care based on predicted medical costs
- Developed MVP to rank medical providers based on variance between predicted outcomes and true outcomes
- Wrote PySpark NLP pipeline to extract correlated TF-IDF features for downstream consumption with NLTK

Travelers, Business Intelligence Analyst / Data Scientist — Jun 2019 – Aug 2020

- Implemented semi-supervised learning with PyTorch to stabilize wind damage imagery classification model
- Created a React.js tool to explain vision models using saliency maps, integrated gradients, and DeepLIFT
- Built QlikView dashboards to track fraud, triage, and propensity model performance and variable drift
- Developed automated regression testing tool to validate deployment of model health reports with Selenium
- Led and developed the Python training for data science and business intelligence interns

Travelers, Actuarial and Advanced Analytics Intern — Jun 2018 – Aug 2018

- Automated data-gathering and reporting for workers' compensation models with Teradata
- Monitored performance and trends in new model-based product rollouts to determine areas of improvement

PROJECTS

Travelers Modeling Competition — 2019 – 2020

- Won 3rd place prize for developing a deep learning model to predict Auto claim severity with minimal MAPE
- Developed a rule-based anomaly detection process to monitor data over time using the Kolmogorov-Smirnov test

Travelers InJam — 2020

- Performed full-stack development to build social network with recommender system based on user similarity
- Developed a RESTful API to serve real-time model recommendations with Flask on AWS

SKILLS

Programming
Python, Java, Git, SQL, HTML, CSS, JavaScript, QlikView, Matlab, Bash, UNIX, Docker
Libraries
PyTorch, TensorFlow, Keras, scikit-learn, pandas, transformers, NLTK, spaCy, XGBoost, LightGBM, Flask, d3.js, matplotlib, seaborn, PySpark, SHAP, Lime, scipy

EDUCATION

The University of Texas at Austin, M.S. Computer Science – GPA: 4.0 — Aug 2019 – Present
The University of Texas at Austin, B.S. Mathematics – GPA: 4.0 — Aug 2017 – May 2019
Elements of Computing, *Applied Statistical Modeling*