

EVAN SHRESTHA

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EXPERIENCE

Travelers, Data Scientist

Aug 2020 – Present

- 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

SuperTaxKart Bot

2019

- Created a multi-agent bot based on image segmentation to play SuperTuxKart against the AI and other DL bots

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