Matt Taylert
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Summary

Experienced Machine Learning Engineering professional with a heavy focus on Natural Language Processing (NLP). My passion for engineering lies heavily in complex problem solving and research.

Competencies

NLP/Machine Learning Libraries: Pytorch, Tensorflow, Transformers, and Scikit Learn.
NLP Competencies: Named Entity Recognition (NER), Theme Analysis, Topic Model, Document Intelligence, Information Extraction, Text Summarization, Conditional Random Fields (CRF), Semantic Analysis, and Optical Character Recognition (OCR).
Languages: Python, SQL, Pyspark, and SCALA
Versioning: Github, Gitlab, and, Jira
MLOPs: Airflow, Hadoop, Docker, and Kubernetes

Professional Experience

DataRobot May 2021 - Present
NLP Engineer

- Member of the Core Deep learning team. Responsible for implementing machine learning techniques into DataRobot's AutoML application.
- Worked on a resume parsing application which leveraged techniques such as multi-class text classification, OCR, and NER/CRFs.
- Developed a document clustering tool for government RFPs using SBERT, cTFIDF, UMap, and HDBscan.
- Created an NLG approach for data augmentation and document synthesis using T5.

Bank of America March 2020 - May 2021
Lead NLP Engineer

- Automated and productionized an NLP approach for detecting emerging themes within customer complaint data. Using FastText embeddings, phrase extraction, and cosine clustering, the model can quickly identify key focus areas for the business.
- Created an NER approach for the extraction of small business loan application numbers from phone call transcriptions.
- Lead a team of four. (2) NLP engineers and (2) Linguists. Performed weekly one-on-ones and managed their work efforts.
- Worked closely with the Model Risk Management team to ensure our production models remained within regulatory compliance guidelines.

UDig January 2019 - March 2020

Data Scientist - NLP

- Constructed a peer reviewer recommendation engine for a Geophysical Scientific Journal by performing TF-IDF on research abstracts and finding the k nearest neighbors based on the TF-IDF vectors.
- Productionized a customer deduplication tool for a company that provides non-partisan information about VIrginia state politics.

McKesson January 2014 - January 2019

(Data Scientist, Sales Compensation Analyst, and Inventory Analyst)

- Helped develop a customer purchasing model to help recommend shopping cart items
- Worked on various data migrations and helped manage a sales incentive program
- Automated a manual process which involved emailing vendors in regards to overdue purchase orders

Education

Virginia Commonwealth University 2018

Master of Science, Decision Analytics

GPA 3.9

James Madison University 2013

Bachelor of Art, Finance

GPA 3.1