JIRI STODULKA

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SOFTWARE SKILLS

AI/ML: Deep Leaning (Keras, PyTorch), Machine learning (Scikit-learn), recommender system, time-series.
Cloud Service: AWS, Azure, GCP
MLOps: Deployment on Azure (via Docker and Kubernetes)

WORK HISTORY (Fulltime and Contracts)

Data Scientist (CV, NLP, MLOps), SGS & Co. 01/2021 – Today (Toronto)

- Developed and deployed CloudSearch application saving users 20 minutes per search. Integrated cost-efficient pipeline for OCR extraction on fly and migration of 1 million files between AWS and Azure.
- Improved Google Document AI (GCP) form parser used in commercial product by at least 25% accuracy.
- Conducted experiments for business need with models like ResNet 50, Mask RCNN, Perceiver IO, etc.

Data Scientist (ML and SQL), Gale Partners Inc. 09/2020 – 12/2020 (Toronto)

- Built a recommender type unsupervised models to drive international expansion of Santander with total balance production over $1.2 billion.
- Conducted unsupervised fanbase profiling for NBA strategic team across all 50 states.
- Queried hundreds of millions of rows in SQL upon which performed feature engineering and modeling.

Data Scientist (Recommender System), StagePage Inc. 02/2020 – 06/2020 (Toronto)

- Built recommender engine, while using hybrid approaches and helped 30,000 early adopters to find the best fit shows to attend.
- Solved the extremely freezing cold-start problem and engineered features for users and shows. Performed model optimization to ensure the least loss error.

Data Scientist (Time-series), beCloudReady Inc. 12/2019 – 04/2020 (Toronto)

- Delivered a solution around low volume of time-series data for demand forecasting of 15,000 SKUs. Forecasted demand for these items in inventory while reducing old forecasting error of 25% to 6%.
- Scaled the company's proposition value: engineered 300 interaction features from initially three available variables.

OPEN-SOURCE

ML in Economics Stream Owner (Discussion Lead), Aggregate Intellect Inc. 06/2020 – present

- Coordinating with leading researchers and authors to present their work relating to ML in economics.
- Facilitated discussions on YouTube channel with more than 14,000 subscribers.
- Lead discission groups with and facilitated knowledge transfer for various topics in DL and Economics.

RECIPEs Concepts Publication

- Domain Agnostic AI: Perceiver IO by DeepMind

WINNER – AI PRODUCT COMPOTETION

Emotionally Aware Movie Recommender System: Fast Film 2020

- Lead a team to built end-to-end recommender engine to enable Netflix users to utilize their own emotional state and own Netflix history, to browse their personalized movie recommendations faster.

OTHER PROJECTS (**Projects** and **GitHub**: www.jiristodulka.com)

Toronto Crime and Folium 2019

- Using geospatial data, clustered and visualized criminal neighborhoods in interactive (Folium) heatmap for Toronto Police Department.

Web Scraping Reddit: Text (Sentiment) Analysis 2019

- Created a playbook to identify causes of negative sentiment associated with early lunch of a new product. Introduced a method how to deliver and visualize costumers' satisfaction in real time.

EDUCATION

MA in Applied Economics (Quantitative Research) 2018

Center for Economic Research and Graduate Education – Economics Institute (CERGE-EI)
CERGE-EI is in top 5% of globally ranked Economics institutions; US-Chartered Degree - New York.

BSc in Business Administration (Statistics, Economics) 2017

State University of New York (SUNY)
Academic Recognition for outstanding GPA