Isaac McKillen-Godfried

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Experiences

Data/ML Engineer Monster Sept-2019 to Present

• Trained and fine-tuned models in PyTorch to automatically add new triplets to the company knowledge graph.
• Created framework agnostic machine learning model platform with Python and integrated with GCP.
• Set standards for data science reproducibility best practices and trained coworkers in PyTorch.
• Assisted in GCP data lake creation with Terraform, Pub/Sub, and BigQuery to enable advanced analytics

Data Engineer Hudson's Bay Company (Contract) Jan-2019 to Jun-2019

• Developed and optimized machine learning pipelines to forecast in-store retail demand with SparkMLlib
• Researched NLP techniques in PyTorch/Tensorflow to improve product categorization and personalization
• Regularly wrote SparkSQL and utilized Zeppelin notebooks on AWS EMR to perform EDA on large datasets.

Data Analyst Eastern Maine Medical Center Jun-2016 to Jun-2018

• Refactored and implemented RNNs in Keras/Tensorflow to forecast patient length of stay and researched few-shot detection of conditions in Chest X-Rays with RetinaNet and YOLO2.
• Created data reports/visualizations for doctors and administrators with Bokeh, Pandas, and Jupyter Notebooks.

Founder PaddleSoft Jun-2015 to Jun-2017

- Created a neural network (NARX) in MATLAB to predict the flow of the Kenduskeag stream.
- Employed big data technologies like Spark and Hadoop (in both Java and Python) to perform distributed analysis and train NLP algorithms like Word2Vec and LDA on textual datasets.

IT Intern Eastern Maine Health Services May-2014 to Aug-2014

Research Assistant University of Maine Jun-2012 to Aug-2013

Other Accomplishments

Developed a chatbot from scratch using the Slack-API, Flask, Redis, PostgreSQL, ElasticSearch, and Spacy. Added more advanced deep learning models with Tensorflow and PyTorch to improve conversational ability.

Author in Towards Data Science- Wrote multiple stories summarizing recent advances in deep learning research as well as tutorials on deploying deep learning models at scale.

Skills

- **Languages**: Python (PyTorch, Tensorflow, Bokeh, Pandas, and scikit-learn), Java, SQL, and Scala
- **Technologies/Platforms**: Docker, Kubernetes, Terraform, GCP (Big Query, Pub/Sub, GCS), Wandb
- **Specialties:** Transfer learning, attention, transformers, multi-modal learning, time series forecasting

Education

B.A. Hispanic Studies with Minors in Computer Science and NEJS Brandeis University Aug-2013 to May-2017