

JARED UCHEREK

jareducherek.github.io

WORK EXPERIENCE

Advent International, *Data Scientist*

2022 – Present

- Modeled market share and cross-brand affiliation using SQL and Python scripts on \$500k+ of alternative datasets such as consumer transactions, web traffic usage, and app usage
- Forecasted whitespace of fast-food chain in a \$9 billion deal, saving \$1+ million in external consulting fees
- Built LLM applications to improve labor efficiency for B2B sales and CRM sanitation, reducing cost of human capital
- Created a suite of robust automation scripts and ETL pipelines utilized by the full team of 15 data scientists to minimize turnaround time for diligence work

Boston Consulting Group, *Data Scientist*

2021 – 2022

- Trained and deployed a recommender system for 3+ million customers leveraging Databricks and MLflow
- Orchestrated an Airflow pipeline to schedule weekly and daily tasks, tracking model performance and drift
- Implemented AB testing and integration tests for CI/CD pipelines, crucial in monitoring changes made to deployed code
- Provided mentorship to 2 junior level analysts via Python trainings and other contributing guidelines

INTERNSHIP EXPERIENCE

Salesforce, *Data Science Intern*

2020

- Deployed PyTorch CNN on AWS with active learning to enrich 1 million customer catalog images
- Utilized Detectron2 to evaluate performance for several object detection models such as RetinaNet and DETR

NVIDIA, *Data Science Intern*

2019

- Benchmarked the speed of open-source RAPIDS suite on server GPUs, including cudf and cugraph
- Showcased GPU capabilities by mapping 300+ GB datasets including US mortgages, NYC taxi rentals, and US car wrecks

NVIDIA, *Software Engineer Intern*

2018

- Implemented a C++ system-level Watchdog to monitor 50 IoT devices deployed throughout the headquarters
- Designed Docker images to streamline software development setup for NVIDIA DeepStream SDK

EDUCATION

M.S. The University of Texas at Austin, *Computer Science*, Overall GPA: 3.8/4.0

2019 – 2021

B.S. The University of Texas at Austin, *Computer Science*, Overall GPA: 3.9/4.0

2015 – 2019

RESEARCH EXPERIENCE

DICE Graduate Research Assistant

2019 – 2021

- Researched neural network interpretability, and machine learning applications in medicine

RAPID Undergraduate Research Assistant

2018 – 2019

- Explored data science topics in petroleum engineering help improve efficiency in multiple parts of the supply chain

PUBLICATIONS

The Importance of Baseline Models in Sepsis Prediction, MLHC 2020

2020

- Explored the MIMIC III open-source database and verified the open-source code provided by publishers
- Trained baseline regression models competitive with published LSTM neural networks used for sepsis prediction

Auto-Suggestive Real-Time Classification of Driller Memos, IADC/SPE 2020

2020

- Generated NLP models to classify drilling memos from 150 wells into 100 specified activities
- Proposed an active learning approach to automate the workflow of daily drilling data entry required by engineers

SKILLS

Programming Languages: Python, SQL, C++, Java, Bash

Python Tools: Pandas, Scrapy, Selenium, PySpark, OpenAI API, PyTorch, OpenCV, Detectron2, Pytest

Development Tools: Git, Github workflows, Jenkins, VSCode, Vim, S3, GCP, Databricks, Docker, AWS, Snowflake