JOSEPH WAUGH

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♠ Website

GitHub

PROFESSIONAL EXPERIENCE

Data Scientist II Apr. 2022 - Present

FedEx Ground

Remote, US

- Leading development of an internal package fraud alerting system using multiple GCP microservices resulting in \$300M+ in revenue savings from customer churn and 100+ internal employee terminations due to theft
- Developed a TensorFlow image classification model for package surcharges, yielding an estimated \$3M in future revenue
- Deployed production changes to improve the FedEx.com estimated delivery date prediction model accuracy by 5%
- Built a TensorFlow image classification model to audit picture proof of delivery images, generating yearly savings of \$2M
- Developed a computer vision learning curriculum and facilitated an internal workshop for 15+ data scientists
- Built 10+ data ingestion jobs with Cron and Cloud Composer for ingestion of IBM AS/400 and DB2 data into BigQuery
- Built 10 different Cloud Logging jobs in Google Cloud Platform to monitor performance of data ingestion scripts
- Built 2 Power BI dashboards to visualize service failure trends for leadership to use in contract negotiations
- Technology Used: Python, SQL, Spark, TensorFlow, BigQuery, Cloud Logging, Cron, Cloud Composer, Power BI

Operations Research, Planning and Analysis Engineer

Jan. 2021 - Apr. 2022

FedEx Ground

Remote, US

- Created a Python library to process internal forecast data for a \$1.2B+ capex optimization research initiative
- Built capex spend analysis for \$300M facility upgrades with 100% approval rate from executive stakeholders
- Technology Used: Python, SQL, Spark, Vertex AI, BigQuery, Pandas, NumPy

Process Engineer

Jun. 2019 - Dec. 2020

State Farm

Tempe, AZ

- Led A/B testing and statistical inference for new telematics products, resulting in a 5% lift for detection of crash events
- Built a Power BI dashboard to highlight headcount trends for claims leadership to understand attrition patterns
- Technology Used: Python, R. SQL, Power BI, Hadoop, Spark, Facebook Prophet

VOLUNTEERING

Machine Learning Mentor

Jul. 2023 - Present

Freelance

Remote. US

- Worked with 8+ mentees on building technical skillsets (i.e., Python, SQL, Tableau) for placement into data science jobs
- Assisted a mentee to fine-tune a stable diffusion generative AI PyTorch model for an open-source image generation tool
- · Co-built a LLM using transfer learning and other NLP approaches in TensorFlow with a mentee

TECHNICAL SKILLS

- Programming Languages: Python, SQL, R
- Big Data Technologies & Frameworks: Airflow, Spark, PyTorch, TensorFlow, Keras, NLP, MLFlow
- Other Tools and Technologies: Tableau, Power BI, Google Cloud, Azure, GPU Training

EDUCATION

Master of Science, Computer Science

College of Computing, Georgia Institute of Technology

Bachelor of Science, Business Data Analytics

Aug. 2017 - Jul. 2019

Jan. 2020 - Dec. 2022

W.P. Carey School of Business, Arizona State University

Tempe, AZ

Remote, US