Chivon E. Powers

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SKILLS & SPECIALTIES

Programming Languages:	SQL, Python, PySpark
Python Packages:	scipy, statsmodels, sklearn, xgboost, pymc, keras, lifelines, transformers, openai, vertexai
Software/Tools:	Shortcut, Jira, Excel, Jupyter, Git, Slack, Notion/Confluent, Mode, Amplitude, Braze
Data Management:	DBT, Google Cloud Products (Bigquery, Generative AI Studio), Azure ML
Specialties:	time-series forecasts, statistical models, experimental design, algorithm optimization product development, signal processing, natural language processing

EXPERIENCE

Senior Data Scientist, Rocket Money (Remote) October, 2021 - present

- Applied learnings from billing cost analyses to drive experiments of other optimally cost-effective billing methods; productionized an optimized billing algorithm resulting in $600k+/year operational cost savings.
- Leveraged gradient boosted tree model and survival techniques to map user churn and engagement timelines; partnered with marketing and product teams to A/B test interventions at peak churn times.
- Infused best experimentation practices into product and growth teams by creating tools for sample size calculation, confidence intervals, and follow-up statistical comparisons.

Senior Data & Applied Scientist, Microsoft (Remote) March, 2021 - September, 2021

- Developed a subscription detection service delivered via API to tag recurring purchases from bank transaction data as part of a team prototyping a personal finance management product in Excel.
- Built algorithms to compute and surface insights to product users about their monthly cash flows, large purchases, and subscription price changes; set up a measurement pipeline in Azure to monitor frequencies, value ranges, and user feedback about the insights.

Data & Applied Scientist II, Microsoft (On-site) July, 2018 - February, 2021

- Delivered experimental framework for evaluating MileIQ drive-detection challenger and champion algorithm performance outside of the production system (ie. offline); composed a PySpark compute pipeline to measure and visualize drive detection quality among algorithm candidates.
- Drove A/B test analysis lifecycle from data gathering to presentation for experiments testing MileIQ features within Outlook; Presented statistical results and strategy recommendations to product stakeholders and senior leadership

Data Science Manager, Acxiom Corporation (On-site) April, 2016 - December, 2017

- Developed a patented method to optimize buyers' searches through Acxiom's data catalog; the algorithm uses NLP methods fine-tuned to Acxiom data segments to surface the most relevant data segments for purchase. Patent no. 11704350 · Issued Jul 18, 2023
- Co-authored a statistical fingerprinting method and guilt assignment algorithm that aggregates and reports admissible evidence that Acxiom could use to recover losses from stolen proprietary data. Patent nos. 11350147 · Issued May 31, 2022; 11163745 · Issued Nov 2, 2021

EDUCATION

Continuing Education:
Generative AI with Large Language Models, Prompt Engineering for ChatGPT, Coursera
Introduction to Generative AI, Generative AI for Developers, Google Cloud
Postdoctoral Researcher, Cognitive Neuroscience, University of California - Davis, Davis, CA
Doctor of Philosophy (PhD), Experimental Psychology, Northwestern University, Chicago, IL