

Dongming Jin

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Experience

ThirdEar - real-time AI coach

Jul. 2023 - Present

Lead Product Data Scientist

- Designed a web app using speech recognition and RAG to provide in-situ feedback, helping beta users to increase group meeting talk time and improve performance review ratings.
- Integrated Vercel SDK and Supabase to reach 99.9% uptime between product iterations.
- Evaluated prompt engineering, GPT fine-tuning, and SOAT speech & language models to optimize latency and performance given specific use case, to meet pilot agreement requirement.

Thumbtack - platform to hire local pros

May 2022 - Jun. 2023

Senior Applied Scientist, Pricing & Product

- Built the Pricing Spectrum™ to guide a seamless pivot to a booking platform, ensuring revenue stability and gaining insights on market and pricing dynamics during a successful pilot phase.
- Developed a predictive bid recommendation model that spurred strategic user bidding behaviors, resulting in an 8% revenue increase validated by A/B testing and holdout analysis.
- Transformed the SQL Lead Estimate model to Python with enhanced modularity, achieving 6x more updates that optimized auto-bidder responsiveness and performance.
- Led the strategic adoption of ChatGPT within the company, fostering innovation through a hackathon that resulted in 100+ project ideas, increased cross-functional engagement, and the development of a GPT-based semantic search tool, culminating in new growth initiatives and three patent filings.

Miles - mileage program for ground travels

Apr. 2019 - May 2022

Senior Data Scientist, Product & Growth

- Developed an innovative recommendation system that leverages ambient mobility data and POI information to address the cold-start problem, especially in LBS marketing engagement, escalated to 7M redemptions, translating into \$200M in value for partners and engaging over 1.4M users.
- Developed dashboards to track business KPIs, aiding in the growth from pre-stage to Series B with over \$20M in funding; led data engineering efforts, ensuring data integrity and actionable insights.
- Established a low-latency sign-up fraud detection logic, which evolved into a risk management service that integrates various fraud signals to safeguard the platform's hyper-growth phase using CatBoost.
- Stepped up to implement database router and sharding to support growing traffic. Managed infrastructure setup and auto-scaling for white-label solutions with major partners.

Education

University of Texas at Arlington

Aug. 2014 - May 2018

Ph.D. in Physics; GPA: 4.00; Scharf Endowment Award

Research

Perspective BBHs in the Virgo Clusters with Gravitational Wave

Aug. 2014 - May 2018

Ph.D. Dissertation

Advisor: Matthew Benacquista

Publications: 2018 Jupyter as a Research Tool; The News that Shifts the Value of Cryptocurrency; The origin of the first neutron star; 2017 Gravitational Waves from BBHs in GCs; 2016 Dynamically formed Binary BHs from GCs; 2014 Globular Cluster Simulation by MOCCA

Skills

Tech Stack: Python (pandas, sklearn, pyTorch), Linux, SQL, git, AWS (SQS, Lambda, Redis, RDS, S3).

Specification: LLM tuning, Fraud Detection, Monetary Strategy, Deep Learning, neural network models.