

Kaan Oram

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Data Scientist with a background in analytics, computer science, and engineering. Experienced in building machine learning pipelines and deploying data solutions, with focus on AI system evaluation and cloud platforms.

TECHNICAL SKILLS

Languages & ML: Python, R, SQL, Java, C++, JavaScript/TypeScript, TensorFlow, PyTorch, Keras, scikit-learn

Cloud & Data: AWS (Lambda, S3, SageMaker), GCP, Docker, Spark, Hadoop, MongoDB, PostgreSQL

Tools & Skills: Deep Learning, NLP, A/B Testing, Statistical Analysis, Tableau, Power BI, Git

PROFESSIONAL EXPERIENCE

AI System Evaluation Specialist | Outlier

Current

- Developed evaluation frameworks to assess LLM outputs for code generation, debugging, and documentation tasks
- Created testing rubrics for analyzing AI-generated code across Python, Java, and JavaScript, focusing on technical accuracy and best practices
- Designed evaluation methods to assess code quality metrics including documentation completeness, error handling, and edge cases
- Conducted systematic reviews of AI-generated technical content for API documentation and debugging solutions

Data Scientist | Tiramisu Studios

2024

- Built real-time analytics pipeline processing 20M+ daily events, reducing data latency from 24 hours to 5 minutes
- Implemented ML-driven player segmentation model increasing user retention by 25% and revenue by 15%
- Developed churn prediction model with 85% accuracy, enabling proactive retention campaigns
- Created automated reporting system saving 20+ hours of manual work weekly
- Optimized game economy using A/B testing, resulting in 30% increase in player engagement

Data Science Consultant | Central Garden and Pet

2023

- Conducted feature engineering and selection to determine key weather factors impacting fire ant product sales
- Implemented and optimized machine learning models, achieving over 80% accuracy using Random Forest for sales prediction
- Collaborated with cross-functional teams to integrate insights into business strategy

PROJECTS

Real-Time E-commerce Analytics Platform

- Developed end-to-end ML pipeline processing 1M+ daily transactions with sub-second latency
- Implemented customer segmentation using K-Means clustering on 20+ behavioral features
- Built neural network achieving 88% accuracy in purchase prediction, 40% better than baseline
- Deployed system using AWS ECS with auto-scaling handling 2000+ concurrent users
- Tech Stack: Python, TensorFlow, AWS (ECS, RDS, S3), React

Enterprise Sales Analytics System

- Architected cloud-based analytics platform processing 10TB+ of historical sales data
- Implemented real-time ETL pipeline with 99.99% data accuracy and 5-minute refresh rate
- Created automated anomaly detection system reducing false alerts by 60%
- Developed interactive dashboards tracking 50+ KPIs used by executive team
- Tech Stack: Python, AWS (Redshift, Lambda, CloudWatch), Tableau

Real-Time Fraud Detection Engine

- Built ML pipeline detecting fraudulent transactions with 95% accuracy and 0.1% false positive rate
- Implemented streaming architecture processing 1000+ transactions per second with 50ms latency
- Developed custom feature engineering pipeline reducing model training time by 40%
- Created automated model retraining system maintaining consistent performance over time
- Tech Stack: Python, TensorFlow, AWS (Lambda, Kinesis), MongoDB

EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. Analytics (Data Science)

2020-2023

University of Pennsylvania

Pennsylvania, PA

M.S. Computer and Information Technology

2020-2022

University of Chicago

Chicago, IL

B.S. Molecular Engineering, Chemistry, Biochemistry

2016-2020