An Than Thanh

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SUMMARY

Results-driven Senior Data Engineer with 6+ years of experience in architecting scalable ML and data infrastructure. Expertise in MLOps, batch data processing, and cost-optimized ML solutions. Proven leadership in designing high-impact data systems, reducing costs, and enhancing operational efficiency in the food delivery industry.

SKILLS AND TECH

- **AI & Machine Learning:** LLM Production Deployment, RAG Architecture, LiteLLM, Feature Engineering.
- **MLOps & Platform Engineering:** Vertex AI, SageMaker, MLflow, CI/CD Pipelines (GitHub Actions, Jenkins), Model Monitoring & Observability.
- **Data Engineering:** Airflow, Dataflow, BigQuery, Apache Hudi, Data Lakehouse Architecture.
- **Cloud & DevOps:** AWS, GCP, Kubernetes, Docker, Terraform.
- **Business Impact & Optimization:** Cost Optimization, Performance Tuning, Data Strategy, Scalable AI Solutions.

EXPERIENCE

Just Eat Takeaway   **Senior Data Engineer**   **Oct 2022 — Present**

- Architected data ingestion system for 4B products with 100M daily updates, implementing hash-key approach that reduced ML inference costs by 400x and extended full-load cycles from monthly to quarterly
- Engineered incremental ML inference pipeline with country-specific flexibility, reducing costs by 91% and accelerating data delivery from weekly to daily
- Developed Kimball dimensional model for ML deliverables, decreasing downstream costs by 68% while enabling 60% immediate inference reuse
- Led BigQuery optimization initiatives, achieving 30% cost reduction while improving query performance
- Migrated ML pipelines from SageMaker to VertexAI/Dataflow, consolidating platforms and reducing operational costs
- Built LLM experimentation platform with LiteLLM and MLflow, enabling rapid prototyping of classification and NER models
- Mentored 10+ engineers on VertexAI and BigQuery analytics through Google incubator program

Just Eat Takeaway   **Data Engineer**   **Jul 2020 — Oct 2022**

- Standardized AWS Terraform infrastructure, reducing provisioning time by 75%.
- Transitioned ML workloads to SageMaker serverless, cutting deployment time by 70%.
- Implemented end-to-end MLOps with Terraform, containerized testing, and automated CI/CD via GitHub Actions
- Led migration from MySQL to Apache Hudi, improving upserts and incremental processing for large-scale data.

Just Eat Takeaway   **Data Scientist**   **Apr 2019 — Jul 2020**

- Developed ML-driven alcohol detection system (94% accuracy), ensuring compliance across multiple regions.
- Designed structured food taxonomy, enhancing search accuracy and promotions.

Delivery Hero   **Data Scientist**   **Nov 2018 — Apr 2019**

- Built AI-driven food classification models, optimizing search and recommendation performance.

EDUCATION

EURECOM & Telecom ParisTech   **Jan 2016 — Jan 2018**

MSc - Data Science, GPA: 4.0/4.0

University of Science   **Jan 2012 — Jan 2016**

BSc - Computer Science, GPA: 3.8/4.0