Toan Dao(Thomas)

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Experience

Unilever   Ho Chi Minh City, Vietnam
Senior Data Scientist   *Jan 2024 – Present*
- Increased forecast accuracy by 15 % through developing and deploying a time series demand forecasting model, streamlining Unilever's Modern/Distribute Trade supply chain and inventory processes.
- Led the design and implementation of MLOps pipelines using Databricks and MLflow, automating model lifecycle management, supporting over 10 model pipelines, and enabling seamless collaboration for 5+ data scientists.

MoMo   Ho Chi Minh City, Vietnam
Senior Data Scientist   *Jul 2022 – Oct 2023*
- Improved eCPM by 40% and CTR by 60% by designing an Ad Decision engine utilizing LightGBM and PID controllers, optimizing for 1200 RPS and 100 ms latency.
- Processed 30M+ events/day through a real-time Ad Capping system built with Pub/Sub and Redis, preventing overspending and enhancing ad delivery efficiency.
- Collaborated with marketing teams to implement Prophet-based forecasting models, driving a 14% increase in campaign ROI through optimized inventory management.

One Mount Group - VinGroup   Ha Noi, Vietnam
Data Scientist   *Oct 2019 – May 2022*
- Boosted Average Order Value (AOV) by 20% with a real-time Frequency Bought Together recommendation model, utilizing feature embeddings and nearest neighbors.
- Increased conversion rates by 35% with an Ensemble Graph Embedding and Sequence-Based Recommendation system for discount products.
- Reduced cost-per-order by 60% by developing a personalized Uplift model using XGBoost, doubling customer transaction frequency.
- Cut deployment time by 50% by designing an efficient machine learning framework for seamless machine learning operation.

Cinnamon   Ho Chi Minh City, VietNam
AI Researcher   *Jan 2019 – Oct 2019*
- Enhanced OCR accuracy by 17% through the implementation of RCNN-based models, establishing state-of-the-art performance.
- Worked closely with 3 other researchers to build an end-to-end model for text detection and recognition, reducing model parameters by 10% and optimizing costs by 25% on the Google Cloud Platform.

GameLoft   Ho Chi Minh City, VietNam
Software Engineer   *May 2018 – Dec 2018*
- Improved system latency by 30% through redesigning the leaderboard module using Java and Redis.
- Streamlined CI/CD pipelines for Dungeon Hunter, implementing Jenkins to automate build, test, and deployment processes.

FPT Software   Ho Chi Minh City, VietNam
Software Engineer   *Jan 2018 – May 2018*
- Utilized parallelization to accelerate data processing and algorithms by 5x.
- Implemented REST API to aggregate 20+ metrics in the system monitor.

Projects And Leadership

EfficientDet.Pytorch(1k4 star on Github) | *GitHub*
- Implemented EfficientDet from scratch in PyTorch for training, evaluation, and inference across diverse datasets.
- Collaborated with Shanghai Jiaotong University to compress 15% of parameters without accuracy loss.

Honors And Awards

Olympiad in Informatics: Top **5th** out of 120 students in Competitive Programming at the University of Science 2017.
Two Sigma: Top **1% percentile** from 3000 teams using news to predict stock movements on **Kaggle**.

Education

University Of Science   Vietnam National University
B.S. in Computer Science   *2015 – 2019*

Skills

Languages: Python, SQL, Java, kotlin, Scala, C/C++, JavaScript/TypeScript.
Technologies: Apache Spark, Pytorch, Tensorflow, Langchain, FastAPI, gRPC, PostgreSQL, Redis, Kafka, Neo4J, Databricks, Kubernetes, Airflow, Power BI.
Data Science & Miscellaneous Technologies: Machine Learning, Deep Learning, Large Language Model, Big Data, MLOps, A/B Testing, ETL, System Design, Design Pattern
Cloud Platforms: Google Cloud Platform, Microsoft Azure, AWS, Databricks.