

PROFILE

Ml. Engineer with 6 years building data-driven systems across recommendation, heat sensing, Sentiment, and MLaaS — from rapid prototyping and research projects to Ml-powered automation and production monitoring at scale, delivering measurable engagement lifts and revenue growth. Skilled in Ml, NLP, Reinforcement Learning, Computer Vision, ML-P, and Data Engineering.

EXPERIENCE

Machine Learning Engineer II — II Jun 2022 — Present

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Heat Sensing Recommendation Engine — Designed and deployed a real-time ranking engine that uses user history and context to predict the next item a user is likely to purchase. Used Clickstream data to build a heatmap of user behavior and used it to rank items in a shopping cart.

MLaaS — Developed a MlaaS platform that provides a simple API interface for users to train their own Ml models and use them in their applications. Trained a neural network to detect faces in images and used it to build a real-time video surveillance system.

Signal Extraction & Data Pipeline — Trained extremely high-volume, noisy event detection models to extract signals from sensor data. Developed a pipeline to process over 100M raw data points per day and deliver alerts to relevant stakeholders. Developed a system to automatically detect anomalies in sensor data and alert operators.

Experimentation Platform — Contributed to an internal A/B testing platform, refined metrics, and developed a system to automatically analyze experiment results and provide insights to stakeholders.

Machine Learning Engineer I Nov 2020 — Jun 2022

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Prediction Model — Used DNN and LSTM to explain model predictions and provide insight into why models produce the outputs they do. Trained and evaluated using Mlflow.

DNN Predictive Module — Created API for confidence monitoring of model performance and provided a visual representation of the confidence monitoring module's output.

AI Platform — Developed a CI/CD pipeline for Ml models. Developed a system to automatically generate ML reports for stakeholders.

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Eye In The Sky — Real-time Image Processing — Trained deep learning models to process images in real-time and detect objects in the sky. Developed a system to detect objects in images and provide real-time feedback to stakeholders.

Image Search & Clustering — Created, trained and evaluated a CNN backbone for image search. Developed PyTorch models for face recognition, OCR and image clustering.

Image Recognition with Fewshot — One-shot few shot verification using the Fewshot API.

Fewshot API — One-shot few shot verification using the Fewshot API.

Feisty Analysis Studio — Performed analysis and generation tasks.

Neural Machine Translation with Attention — Developed a system to encode each sentence with attention mechanisms, learning to focus on relevant input features at each decoding step.

Recommender System — Developed a system to recommend products based on user history.

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