Julia Novak

Machine Learning Engineer
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SUMMARY

Machine learning engineer with 6 years of experience taking ranking, classification and LLM systems to production. Trained and served a PyTorch search model that raised conversion by 8% across 12 million monthly queries, at p99 under 45 ms. Builds evaluation sets before models.

EXPERIENCE

Machine Learning Engineer — Coastline Marketplace

San Diego, CA · Jun 2022 – Present

- Trained and deployed a PyTorch two-tower retrieval model for product search, raising search conversion by 8% across 12 million monthly queries.
- Built real-time serving on Kubernetes with Triton and a Redis feature cache, keeping p99 latency under 45 ms at 3,000 requests a second.
- Shipped a retrieval-augmented (RAG) support assistant over 20,000 help articles, guided by a 600-question evaluation set.
- Set up MLflow tracking and automated weekly retraining, cutting model refresh from a manual 2-week process to 1 day.

Data Scientist — Pacific Crest Insurance

San Diego, CA · Aug 2020 – May 2022

- Built a claims-fraud classifier in LightGBM that flagged 2x the confirmed fraud at the same review capacity.
- Moved the model from notebooks to a FastAPI service with data-drift monitoring, the team's first model in production.
- Wrote Spark feature pipelines over 40 million historical claims.

SKILLS

Machine learning: PyTorch, scikit-learn, LightGBM, Hugging Face Transformers, embeddings and vector search

LLMs: RAG, evaluation design, fine-tuning (LoRA), hosted and open-weight models

MLOps: MLflow, Kubeflow, Docker, Kubernetes, Triton Inference Server, Airflow

Languages and data: Python, SQL, Spark, FAISS, Redis

EDUCATION

M.S. Computer Science (Machine Learning), University of California San Diego, 2020

Fictional example by FindAJobAI: the person, employers and numbers are invented.