Alex Park

Senior Machine Learning Engineer

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SUMMARY

Machine Learning Engineer with 5 years of experience building and deploying large-scale search and relevance systems. Specialized in developing personalized search algorithms, learning-to-rank models, and recommendation systems. Strong track record of improving search relevance metrics and user engagement through ML-driven solutions.

PROFESSIONAL EXPERIENCE

SearchTech AI   2022 - Present
Senior Machine Learning Engineer

- Led development of next-generation learning-to-rank system using BERT-based architectures, improving search relevance by 24% (NDCG@10)
- Architected and deployed real-time personalization system processing 10M+ daily queries, increasing CTR by 15%
- Built automated A/B testing pipeline for ML experiments, reducing testing cycle time by 40%
- Mentored team of 3 ML engineers and contributed to ML hiring and interview processes

E-commerce Corp   2019 - 2022
Machine Learning Engineer

- Developed semantic search system using transformer models and approximate nearest neighbors, reducing null search results by 35%
- Implemented query understanding pipeline with named entity recognition and intent classification
- Created automated feature engineering pipeline for 100+ behavioral and contextual signals
- Reduced model training time by 60% through distributed training implementation on Kubernetes

Tech Solutions Inc   2017 - 2019
Software Engineer

- Built data pipelines and APIs for ML model serving using Python, Apache Spark, and Elasticsearch
- Implemented basic text classification and clustering algorithms for document categorization

TECHNICAL SKILLS

Machine Learning:
PyTorch, TensorFlow, Scikit-learn, Learning-to-Rank, BERT, Word2Vec, FastAI

Search Technologies:
Elasticsearch, Solr, Lucene, Vector Search, BM25, FAISS

Programming:
Python, SQL, Java, Scala, Shell Scripting

Infrastructure:
AWS, Docker, Kubernetes, Airflow, MLflow, Git

EDUCATION

University of California, Berkeley   2019
M.S. Computer Science, Focus in Machine Learning

University of Washington   2017
B.S. Computer Science