Contact

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www.linkedin.com/in/khalidm-khan (LinkedIn)

digital-resume-live.vercel.app (Personal)

github.com/Kahl-d (Other)

Top Skills

Render

Flask

BERT (Language Model)

Khalid Mehtab Khan

Artificial Intelligence Research @San Francisco State University | NLP

San Francisco, California, United States

Summary

AI researcher and engineer passionate about NLP, machine learning, and building scalable AI systems that solve real-world problems. I thrive at the intersection of research and application, combining deep technical expertise with an innovative mindset.

Currently, I'm leading CULTIVATE (Contextual AI for Understanding Capital and Assets in STEM), where I work on embeddings, fine-tuning, and hyperparameter optimization to extract insights from text. I've also explored healthcare AI, spearheading a data augmentation project for tabular data and expanding its impact.

I'm always looking for ways to push the boundaries.

Experience

San Francisco State University

1 year 1 month

Graduate Research Assistant

August 2024 - Present (1 year)

San Francisco, California, United States

• Led the development of a distributed multilabel text classifier by fine-tuning DeBERTa using LoRA on an HPC cluster with A100 GPUs; integrated Optuna for automated hyperparameter optimization.

• Built Retrieval-Augmented Generation (RAG) pipelines integrating domain-adapted DeBERTa and Mistral models; leveraged prompt engineering and stored word embeddings on AWS S3 for efficient retrieval.

• Improved recall by 12% and reduced manual annotation workload by 75%; enhanced interpretability using a custom loss function and t-SNE visualizations.

Teaching Assistant

July 2024 - Present (1 year 1 month)

San Francisco, California, United States

In my role as a Teaching Assistant at San Francisco State University, I played a pivotal role in delivering advanced NLP course content, providing individualized guidance to students, and supporting their learning through grading assignments. I conducted classes on logistic regression and fine-tuning LLMs, mentoring peers in data science concepts via the AI Stars initiative.

Innovaccer
Healthcare Associate
January 2021 - September 2022 (1 year 9 months)
Noida, Uttar Pradesh, India

• Led a team of 3 focused on data governance and reporting, accelerating BI capabilities by 40% through robust SQL and Python ETL pipelines.
• Consolidated payer-provider datasets to reduce data latency by 30%, identifying crucial trends in patient-provider interactions and improving lead-generation strategies.
• Implemented data-driven insights to enhance outreach for healthcare clients, strengthening user engagement and system performance.

Indibni
Product Development Team
May 2019 - July 2019 (3 months)
Jaipur Area, India

Education

San Francisco State University
Master of Science - MS, Data Science and Artificial Intelligence · (August 2023 - May 2025)

The LNM Institute of Information Technology
Bachelor's degree, Computer Science · (2017 - September 2021)