

EDUCATION

STANFORD UNIVERSITY

Palo Alto, CA

Master of Science, Computer Science (Artificial Intelligence Specialization)

Sep 2024 – June 2026

Bachelor of Science, Symbolic Systems (Human-Centered Artificial Intelligence Specialization)

Sep 2021 – June 2026

EXPERIENCE

COSTAR GROUP – HOMES.COM

Washington D.C.

Machine Learning Intern

June 2024 - Present

- Developed an AI-powered search engine for condo buildings, leveraging multimodal embeddings to enhance search accuracy and relevance.
- Designed and implemented the front-end using Streamlit, incorporating CSS for styling and ensuring a user-friendly interface for seamless interaction and query input.
- Built a comprehensive back-end API, integrating AWS Titan embeddings for generating vector representations of text and image inputs. Configured and used OpenSearch for efficient, scalable vector database querying. Incorporated computer vision and NLP techniques to process and analyze both image and text inputs, enhancing search results accuracy.
- Collaborated with cross-functional teams to refine search algorithms, optimize system performance, and ensure high-quality results.

BSE GLOBAL

Brooklyn, NY

Data Analytics & Insights Intern

June 2023 – Sep 2023

- Led the data analysis and extraction initiatives using complex SQL queries, gathering vital business intelligence and distilling actionable insights to support key strategic decisions across Brooklyn Nets, New York Liberty, and Barclays Center.
- Built and implemented a gradient boosting machine learning model using Python to classify customer segments, resulting in targeted marketing strategies and improved customer acquisition rates.
- Developed a Natural Language Processing (NLP) algorithm to analyze sentiment in sales rep-customer phone calls, aiming to refine sales strategies and performance. Utilized advanced sentiment analysis techniques to extract emotional tone and customer satisfaction levels from call transcripts, translating qualitative data into implementable recommendations.

PROJECTS

- **Multilingual Narrative Detection using XLM-R** - Developed and fine-tuned a multi-task XLM-R model to concurrently perform Named Entity Recognition (NER) and Sentiment Analysis for comprehensive narrative detection in social media text, leveraging advanced techniques such as hard and soft parameter sharing, hierarchical fine-tuning, and Bayesian hyper-parameter optimization, achieving significant performance improvements across multilingual datasets.
- **NBA Hall of Fame Predictor** - Constructed a Machine Learning model utilizing Gradient Boosting in Python to predict potential NBA Hall of Fame inductees based on career statistics and accolades. Refined model accuracy through iterative training, effectively capturing the patterns that correlate with Hall of Fame selection criteria.

ADDITIONAL INFORMATION

- **Stanford Sports Analytics Club** - Lead projects that transform data into insights, collaborating with Stanford's sports teams to sharpen their strategies with quantitative analysis.
- **Stanford AI Group** - Active participant, engaging in ethical discussions and workshops with industry leaders to explore the impacts and future of AI in fields such as health and education.
- **Languages:** Python, Java, R, C++, HTML, JavaScript, SQL
- **Tools/ Technologies:** Git, PyTorch, AWS, Streamlit, CSS, Jupyter Notebooks, Tableau