

# Vikram Srinivasan

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## EDUCATION

### Stanford University

*Master of Science in Computer Science, Concentration in Artificial Intelligence*

*Bachelor of Science in Symbolic Systems, Concentration in Natural Language*

Palo Alto, CA

Jan. 2025 - June 2026

Sep. 2021 - Dec. 2025

## EXPERIENCE

### CoStar Group

Washington, D.C.

*Machine Learning Intern* | Python, PyTorch, AWS, Streamlit, Databricks, NoSQL

June 2025 - Sep. 2025

- Built and deployed a large-scale computer vision pipeline on AWS for detecting kitchen features in real estate imagery, training and fine-tuning CNN and Vision Transformer (ViT) models in PyTorch to achieve over 90% average precision and 80% average recall on key object classes.
- Applied feature engineering, hyperparameter tuning, and iterative evaluation to improve ranking performance of detected features for downstream search and personalization systems.
- Delivered a real-time, human-in-the-loop validation dashboard in Streamlit, enabling interactive model inspection.

*Software Engineering Intern* | Python, SQL, TypeScript, PyTorch, AWS, Git

June 2024 - Sep. 2024

- Developed a multimodal search engine for 100K+ condo buildings, integrating text embeddings (NLP) and visual embeddings (CV) to improve retrieval accuracy and personalization.
- Built scalable AWS-based APIs for generating and serving vector representations, leveraging OpenSearch for ranking optimization and distributed query execution.
- Designed a responsive interface for interactive content discovery, enabling seamless exploration of multimodal search results.

### BSE Global (Brooklyn Nets)

Brooklyn, NY

*Data Analytics & Insights Intern* | Python, MySQL, Tableau

June 2023 - Sep 2023

- Built a Machine Learning model using scikit-learn 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.

## PROJECTS

### Geovision: Image Geolocation with ViTs

| [github.com/vik-srinivasan/GeoGuessrCV](https://github.com/vik-srinivasan/GeoGuessrCV) | Python, PyTorch

- Fine-tuned ViT-B/16 and ResNet-50 on a 104-class country-level geolocation task using GeoGuessr images, achieving 88.3% Top-5 accuracy, surpassing human baselines by 3–5× and outperforming GPT-4o.
- Developed an end-to-end geolocation pipeline with Hugging Face APIs, performing error analysis, class-balancing, and hyperparameter tuning to optimize model performance.

### Context-Aware Voice Dictation for Accessibility

| [github.com/vik-srinivasan/Audio-Feedback](https://github.com/vik-srinivasan/Audio-Feedback) | Python

- Developed a Voice Dictation Tool leveraging Named Entity Recognition (NER) and real-time error correction to enhance transcription accuracy for blind and low-vision users.
- Built backend functionality in Python to integrate speech-to-text (using Google Web Speech API) and NER (using Google Gemini API) for proper noun detection and correction.

### Multilingual Narrative Detection with XLM-R

| [github.com/vik-srinivasan/MultiNarDetection](https://github.com/vik-srinivasan/MultiNarDetection) | Python, PyTorch

- Developed a multi-task transformer model (XLM-R) to perform concurrent Named Entity Recognition and sentiment analysis for narrative detection in multilingual social media text, focusing on political discourse.

### RepWise

| [github.com/vik-srinivasan/RepWise](https://github.com/vik-srinivasan/RepWise) | TypeScript, React Native, CSS, Supabase

- Designed and developed a React Native mobile application that generates personalized workout plans using AI, integrating the Gemini API to tailor workouts based on user preferences, workout history, and fitness goals.
- Developed a backend integration with Supabase to store and retrieve workout history, supporting data validation and relational database management.

## SKILLS

- **Technologies:** Python, Java, JavaScript, TypeScript, SQL, PyTorch, React, Next.js, Node.js, Git, Docker, AWS
- **Expertise:** ML/Data Science, Natural Language Processing, Computer Vision, Full-Stack/Front-End Development