

Srikeerthi Srinivasan

Arlington, TX 📞 6822177499 ✉ srikeerthi.vs@gmail.com 🌐 srikeerthi.dev 📄 linkedin.com/in/srikeerthis

Summary

Machine Learning Engineer with expertise in AI solutions, computer vision, NLP, and scalable cloud systems. Experienced in deploying ML models across industries, driving automation, and leveraging tools like TensorFlow, PyTorch, and AWS to deliver impactful results.

Experience

Research Assistant 01/2023 - 12/2023

Sustainable and Equitable Allocation of Resources Lab, UTA | Arlington, TX

- Designed a workflow to convert 2D neighborhood maps into 3D layouts using ArcGIS Pro and Mask R-CNN with 90% accuracy.
- Analyzed transportation patterns from National Household Travel Survey data to provide insights for sustainable electric vehicle infrastructure planning.

Machine Learning Engineer 05/2021 - 07/2022

Scientist Technologies Pvt Ltd | Bengaluru, India

- Reduced physiotherapy costs by 5% and managed 100+ patients with a computer vision-based model.
- Deployed an AI algorithm for real-time interpretation of medical device readings with 95% accuracy.
- Created a culinary database of 5,000+ recipes supporting an NLP-based diet planner.
- Improved software quality through design reviews and feedback on coding practices.

Intern 05/2020 - 06/2020

Nestle India | Cherambadi, India

- Developed a Google Sheets-based tool for equipment maintenance reporting, improving efficiency by 40%.
- Led training initiatives on tool usage, boosting workforce productivity by 15%.

Skills

Language, Frameworks & Libraries: Python, Django, Flask, Streamlit, Numpy, Pandas, TensorFlow, PyTorch, Scrapy, OpenCV, Tkinter, OpenAI, OpenAI embeddings, boto3, SQLAlchemy, PGVector, LangChain

Tools & Platforms: AWS S3, AWS Lambda, AWS Bedrock, Git, GitHub, Ubuntu, Docker, DynamoDB, MongoDB Atlas, Postgres, Streamlit Cloud, ArcGIS Pro

Projects

Candidate Search Application (HackUTA 2024) [Github](#)

- Developed a candidate search app using Streamlit, MongoDB, and OpenAI for resume retrieval.
- Designed a semantic search engine leveraging OpenAI embeddings, achieving accurate and relevant candidate matching.
- Built a scalable backend with MongoDB Atlas and deployed the application on Streamlit Cloud.

Semantic Search using Postgres database [Github](#)

- Created a Flask API for semantic search using embeddings and cosine similarity, improving search speed by 5%.
- Leveraged PGVector in Postgres for efficient embedding storage and retrieval, optimizing database performance.

ETL Data Pipeline [Github](#)

- Built a batch processing pipeline with AWS Lambda to validate and transfer data from S3 to DynamoDB.
- Secured sensitive credentials using AWS Secrets Manager, ensuring robust and secure data handling.

Education

Master of Science in Computer Science 07/2022 - 12/2024

University of Texas at Arlington

- Officer at Mobi Group, UTA: Promoted open-source development via social coding initiatives

Bachelor of Engineering in Computer Science and Engineering 07/2017 - 08/2021

Vidyavardhaka College of Engineering

- Officer at Open Source Lab: Winner of Smart India Hackathon 2019