Srikeerthi Srinivasan

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Education

Master of Science in Computer Science   Jul 2022 - Present
University of Texas at Arlington
GPA: 3.42/4.0
- Roles: Research Assistant at the SEAR Lab, Officer at the Mobi Group

Bachelor of Engineering in Computer Science and Engineering   Jul 2017 - Aug 2021
Vidyavardhaka College of Engineering
GPA: 3.28/4.0
- Leadership: Officer at the Open Source Lab, Smart India Hackathon Winner

Skills

Language, Frameworks & Libraries: Python, Django, Flask, Numpy, Pandas, TensorFlow, PyTorch, Scrapy, OpenCV, Tkinter, OpenAI, boto3, SQLAlchemy, PGVector
Tools & Platforms: AWS S3, AWS Lambda, AWS Bedrock, Git, GitHub, Ubuntu, Docker, DynamoDB, MongoDB, Postgres
Areas of Interest: Machine Learning, Backend Development, Prompt Engineering

Experience

Research Assistant   Jan 2023 - Dec 2023
Sustainable and Equitable Allocation of Resources Lab, UTA | Arlington, TX
- Conducted range analysis for Electric Vehicles across the USA using ArcGIS Pro, optimizing routing and charging station placement.
- Reconstructed 2D neighborhood maps into 3D layouts with a 90% accuracy rate using ArcGIS Pro and Mask R-CNN.
- Analyzed critical infrastructure maps in Texas, providing insights for urban planning decisions.

Machine Learning Engineer   May 2021 - Jul 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   May 2020 - Jun 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%.

Projects

Semantic Search using Postgres database
- Created a Flask API that performs semantic search by using embeddings and cosine similarity to retrieve results faster by 5%.
- Stored embeddings using the PGVector extension in Postgres for efficient retrieval and search operations.

ETL Data Pipeline
- Engineered a scalable batch processing pipeline using AWS Lambda to validate and transfer CSV files from S3 into DynamoDB, ensuring efficient and reliable data handling.
- Utilized AWS Secrets Manager for secure handling and retrieval of sensitive credentials.