Srikeerthi Srinivasan

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Education

Master of Science in Computer Science 07/2022 - Present
University of Texas at Arlington GPA: 3.42/4.0

- Officer at Mobi Group, UTA: promoted Open Source development via Social Coding

Bachelor of Engineering in Computer Science and Engineering 07/2017 - 08/2021
Vidyavardhaka College of Engineering GPA: 3.28/4.0

- Officer at Open Source Lab: Winner of Smart India Hackathon 2019, organized Hacktoberfest, Mozilla Common Voice Sprint

Skills

Language, Frameworks & Libraries: Python, Django, Flask, Numpy, Pandas, TensorFlow, PyTorch, Scrapy, OpenCV, Tkinter, OpenAI, boto3, SQLAlchemy, PGVector, LangChain
Tools & Platforms: AWS S3, AWS Lambda, AWS Bedrock, Git, GitHub, Ubuntu, Docker, DynamoDB, MongoDB, Postgres, ArcGIS Pro
Coursework: Python Programming, Web Data Managment, Data Mining, Computer Vision, Machine Learning

Experience

Research Assistant 01/2023 - 12/2023
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 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%.

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.