Srikeerthi Srinivasan

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EDUCATION

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

Visvesvaraya Technological University | Bachelor of Engineering in Computer Science   Jul 2017 - Aug 2021
- GPA: 3.28/4.0
- Leadership: Officer at the [Open Source Lab](), promoting innovation and collaboration in software development. Smart India Hackathon Winner

SKILLS

Languages: Python
Frameworks & Libraries: Django, Flask, Numpy, Pandas, TensorFlow, PyTorch, Scrapy, OpenCV, Tkinter
Tools and Platforms: AWS, Azure, Google Cloud Platform, Git, Linux, Docker, MongoDB, MySQL, Unity3D, ArcGIS Pro
Areas of Interest: Computer Vision, Machine Learning, Backend Development, Prompt Engineering

EXPERIENCE

Research Assistant   Jan 2023 - Dec 2023
Sustainable and Equitable Allocation of Resources Lab | UTA | Arlington, TX
- Conducted a range analysis using ArcGIS Pro for Electric Vehicles across the USA, identifying the maximum coverage area an EV can achieve on a single charge, optimizing routing, and enhancing charging station placement.
- Reconstructed a 2D neighborhood map into a 3D layout using ArcGIS Pro and deep learning techniques, achieving a 90% accuracy rate, which enhanced spatial analysis and visualization capabilities.
- We Investigated and analyzed maps of critical infrastructures in Texas using ArcGIS, revealing key accessibility insights based on income and demography, leading to informed urban planning decisions.

Machine Learning Engineer   May 2021 - Jul 2022
Scientist Technologies Pvt Ltd | Bengaluru, India
- Reduced physiotherapy costs by 5% and managed over 100 patients by deploying a computer vision-based model that analyzed post-joint surgery exercise videos, enhancing treatment efficiency and patient care.
- Enhanced patient care and enabled real-time data transmission to healthcare providers by employing a proven AI algorithm that interpreted medical device readings with 95% accuracy.
- Assembled a culinary database with over 5,000 recipes from the Indian subcontinent by leveraging data scraping techniques, supporting an NLP-based diet planner, and enhancing user engagement.
- Improved software quality by participating in design reviews and providing critical feedback on code quality and best practices.

Intern   May 2020 - Jun 2020
Nestle India | Cherambadi, India
- Developed a web-based tool that streamlined equipment maintenance reporting, boosting operational efficiency by 40%.
- Led training initiatives that enhanced workforce productivity by 15%, optimizing manufacturing processes.

PROJECTS

Essay Evaluator (Python, Django, OpenAI API, HTML, CSS)
- Developed a web application using OpenAI's ChatGPT 3.5 model to automate and streamline essay evaluations.
- Enhanced essay analysis by integrating OpenAI's API for natural language processing, focusing on relevance and spelling accuracy within Django's framework.
- Improved application scalability and performance by utilizing Django's ORM for efficient data storage and retrieval, ensuring high responsiveness and data integrity.

Meal Data Scraping (Python, Scrapy, MongoDB, Web Scraping)
- Enhanced dietary planning by developing an automated tool that extracts and processes meal data from various culinary websites using Python and the Scrapy framework.
- Ensured data integrity and seamless retrieval by engineering robust data pipelines to manage and store large datasets in MongoDB.