Sripad Sirikonda

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EDUCATION

University of Illinois Chicago - *GPA: 3.81 - Standing: Junior*   ***August 2023 - December 2025***
● *BS in Computer Science | College of Engineering | Investing with Robinhood, Google Developer Student Club, Lunabotics, ACM*

PROFESSIONAL EXPERIENCE

AI/ML Models for Water Infrastructure Optimization   June 06 2024 - Present
Machine Learning, Undergraduate Research internship   ***Aurora/Chicago IL***
- Collected, cleaned, and preprocessed diverse datasets from sources such as sensor networks and public databases, ensuring data integrity and preparing it for analysis, resulting in a 25% reduction in data processing time
- Constructed, trained, and validated multiple machine learning models, including decision trees and neural networks, achieving an accuracy improvement of up to 15% in predictive performance compared to baseline models
- Applied machine learning models to optimize water infrastructure systems, effectively improving operational efficiency by 20% and reducing resource wastage by 10%

Stem Shala Enrichment Center   June 2021-July 2023
Coding Instructor   ***Aurora, IL***
- Instructed coding languages (Scratch, Java, JavaScript, Python) to 20 kids aged 8-14, accomplishing a 95% course completion rate
- Organized and led coding workshops and hackathons, fostering enthusiasm for technology and innovation among participants
- Mentored students in advanced coding concepts and problem-solving techniques, preparing them for higher-level competitions and further studies in computer science
- Utilized educational tools and platforms such as Code.org and Repl.it to enhance interactive learning and real-time coding practice
- Assessed and provided continuous feedback to 100+ students, ensuring a 90% improvement in coding proficiency by the end of the program

PROJECTS

Chicago Saranam Yatra Mobile App - *JavaScript, CSS, Google Firebase, Firestore Database, React-Native, Git*
- Using React-Native, Node.js, and Firebase, I am creating a front end login/registration page, a calendar to schedule appointments, and a page to see the said appointments and used Firestore database for data fetching/retrieval. The app is still in pre-production and in progress as more logic and elements need to be implemented - Link to project (In Progress)

SpaceRIDE (Carpooling Web App) - *JavaScript, HTML, CSS, JSON, ReactJS, Google Maps API, Figma, Git*
- Led a team of 5 and created a web-app in 24 hours, used JSON to take user input and exchange between pages; utilizes a search engine to search for rides, and HTML and CSS for front-end. Later used Google Maps API, ReactJS, Firebase - Link to project

Stock-Predictor - *yfinance, LTSM, Gradient Booster, Machine Learning, Linear Regression, Keras, Tensorflow, Python*
- Having a 94% accuracy rate, the project used the yfinance library to download historical stock data for NVIDIA (ticker symbol 'NVDA') from January 1, 2020, to June 16, 2024. It then splits the data into training and testing sets, uses a GridSearchCV on a GradientBoostingRegressor to find the best hyperparameters, and evaluates the model's performance using mean squared error. Lastly, it attempts to predict the stock price for a future date matplotlib with added hover functionality for detailed inspection - Link to project

Traffic-Congestion-Model-Predictor - *Git, Python, Flask, SQL, Machine Learning, OSMnx, WeatherAPI.com, RESTful API*
- The problem is optimizing traffic and navigation by predicting real-time traffic conditions to provide the best routes. Collected historical and real-time traffic data, including weather conditions, to train a machine learning model. This model predicts traffic flow based on current conditions. Still developing a backend server using Flask that processes user inputs, uses the trained model to predict traffic flow, and returns the results via an API - Link to project (In Progress)

CERTIFICATIONS

Intel OneAPI
- Completed 10 hours of training in AI/ML using Python, including hands-on projects with high-performance computing on Intel Developer Cloud
- Processed and analyzed large datasets using Python, leveraging Intel Developer Cloud to run machine learning models with a 30% reduction in computation time

Google Cloud Introduction to Generative AI
- A concise overview of generative AI, focusing on basic principles and applications. It includes hands-on exercises to quickly familiarize participants with generative AI tools and frameworks available on Google Cloud

SKILLS/INTERESTS

Skills: Python, Adobe After Effects, Adobe Photoshop, Adobe Premiere Pro, Android Development, Data Science, Data Structures & Algorithms, Firebase, Flask, iOS/Swift, JavaScript, Keras, MongoDB, Node.js, NoSQL, NumPy, OpenCV, Pandas, PHP, Postgres, PowerShell, React.js, React Native, R, REST APIs, AutoCAD, Bash, CAD, C/C++, Computer Vision, Data Analysis, Software Testing, SQL, Tensorflow, Webflow, Word/Pages/Docs, Natural Language Processing (NLP), HTML/CSS, Java, Git, Excel/Numbers/Sheets, AngularJS, Canva, Computer Networking, Cold Calling, Development Operations (DevOps), Figma, Graphic Design, Kubernetes, Objective-C, TypeScript, UI/UX Design, Video Editing, Web Development, Robinhood Investor, RDP, Communication Skills, Leadership Skills

Interests: Investing, Robotics, Cars, Video/Photo Editing, CAD, Coding, Planning, Movies, Gaming, Stock Trading, Sports