Prajitchandar "PJ" Sathischandar

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coder693
PJ

Education

•Purdue University - West Lafayette, IN *2023-27*

Bachelor of Science (B.S.) Computer Science, Artificial Intelligence

•Bridgewater Raritan High School - Bridgewater, NJ *2019-23*

FRC robotics, Mu Alpha Theta, C.O.D.E Club GPA: 4.57

Experience

•KovanLabs *May 2024-*

Intern

- Worked on a Retrieval-Augmented Generation (RAG) LLM-powered life planner app
- Contributed to code optimization and user experience design for streamlined automation processes.
- Utilized Python for the backend and React for the frontend for the life planner web app.
- Technology Used: Python, Ollama, Langchain, Streamlit

•Code Ninjas *Feb 2021 - Aug 2025*

Code Instructor

- Worked part-time with a high school and college student team to help tutor groups of 10-20 students on topics ranging from robotics to JavaScript to Lua Roblox Game Dev.
- Tutored students of all ages and backgrounds, including neurodivergent students.

•Purdue Data Mine *Aug 2023- May 2024*

Undergraduate Researcher

- Collaborated with **AbbVie** and a team of interdisciplinary students researching Markov chains, deep neural networks, and ML models for Multi-Touch Attribution using Agile methodology to develop our deliverables.
- Worked with Python using various libraries such as XGBoost to find an optimal sequence of touch points.
- Presented findings at a symposium with an interactive UI and research poster for users to see how different touch points affected conversion outcomes.
- Technology Used: Python, XGboost, Markov Chains, Streamlit

Personal Projects

•AI-Powered Spam Detection Filter

Neural Network-based model leveraging analytics to forecast financial trends, emphasizing data-driven decision-making

- Developed a spam detection neural network using Keras and scikit-learn
- Integrated model into a web dashboard using Streamlit for live testing and a demo.
- Achieved over 95% accuracy on validation data, surpassing baseline models.
- Technology Used: Python, Pandas, Jupyter Notebook

•Stock Price Predictor

Random Forest-based model leveraging analytics to forecast financial trends, emphasizing data-driven decision-making

- Trained model using data set containing historical data for S&P 500 with a precision score method and back testing
- Used predictors such as close ratios, trends, and taking rolling averages with horizons of 2,5,10,50,100,1000 days
- Added other predictors coming from prices of stocks within certain sectors of the economy, resulting in a 59% precision score
- Technology Used: Python, Pandas, Jupyter Notebook

Skills and Interests

Languages: C/C++, Python, Javascript, Java, HTML+CSS
Libraries: Pandas, Scikit-learn, TensorFlow and Keras, LangChain, XGBoost, PyTorch, Flask, Docker, MatPlotLib, Pytest
Web Dev Frameworks: Node.js, React.js, Express.js, Three.js
Cloud/Databases: Azure, AWS, SQL, QlikView, Tableau, Laravel, Power Bi, MongoDb, Chromadb
Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Object Oriented Programming, Linear Algebra, Programming in C, Discrete Math, Science Communication
Soft Skills: Problem-Solving, Microsoft 365 suite, Critical Thinking, Leadership, Interpersonal communication, Presentation, Adaptability, Time management