Nithish Kumar Megarajan

Final Year Software Engineer from the University of Strathclyde

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Summary

Final Year Student with a solid grounding in mathematics and logic, developed through a lifelong passion for computers. Channeling this intrinsic interest into a focus on Software Engineering, I am currently achieving academic excellence at the esteemed University of Strathclyde. Augmented by a valuable Industrial Placement, I am gearing up to make impactful contributions to the digital landscape through innovation and technical expertise.

Projects

Boston Metro System – (JAVA) [GitHub]

- This project stands as an intricate Java-based endeavour, meticulously crafted as an integral component of the CS 308 curriculum.
- Our collaborative team undertook the challenge of conceptualising and actualising a simulation centred around the intricacies of the Boston Metro System.
- Our emphasis lies in faithfully emulating the System's multifaceted functionalities, intricate route networks, and dynamic responses within a spectrum of contextual variables.

Algorithmic Trading with Machine Learning [GitHub]

- Developed algorithmic trading strategies using machine learning, enhancing market opportunity identification and trading profitability.
- **Approach & Impact:** Utilized unsupervised clustering for optimized portfolio allocation, Twitter sentiment for trend forecasting, and GARCH models for intraday volatility predictions, significantly outperforming SP500 benchmarks.

ALL OTHER PROJECTS CAN BE VIEWED IN MY GITHUB

Experience

SMT, INDIA (REMOTE)

Software Engineer (Intern)

- Streamlined user support by responding to inquiries within Web Apps and CRM using AI, reducing reliance on human agents.
- Enhanced system efficiency by designing Python scripts and stored procedures, optimising data retrieval and processing.
- Applied LSTM recurrent neural networks to classify user input, elevating analytical skills and contributing to responsive AI-driven interactions.

I garnered over four years of valuable experience in the hospitality sector in Glasgow during my University tenure, skilfully balancing academic pursuits with part-time engagement to meet my daily requisites.

Skills

Java, J2EE Technologies, Python, Django, JavaScript, TypeScript, React, MySQL, MongoDB, AWS, RESTful, Spark Git, GitLab and Agile.

Education

University OF Strathclyde — Glasgow, UNITED KINGDOM

Bachelor of Science: Software Engineering   Sep 2019 – May 2024

- Predicted First Class Honours
- Industrial Placement in Year 4 of the Degree.

Key Courses: Algorithms, Data Structures, Software Development Process, Design Pattern, Databases, Web Programming & Agile Methods.