

Nithish Kumar Megarajan

Master’s Student in Artificial Intelligence at Monash University

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Summary

A passionate software engineer with a Bachelor’s of Software Engineering from the University of Strathclyde, Glasgow, United Kingdom, now pursuing a Master’s in Artificial Intelligence at Monash University, Melbourne. My academic journey is fueled by a strong foundation in mathematics, logic, and software development. With hands-on experience in AI, machine learning, and algorithmic problem-solving, I aim to contribute to impactful technological solutions that push the boundaries of innovation.

Projects

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.

Other projects can be viewed on 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, optimizing data retrieval and processing.
- Applied LSTM recurrent neural networks to classify user input, elevating analytical skills and contributing to responsive AI-driven interactions.

Gained over four years of experience in the hospitality sector in Glasgow while pursuing my degree.

Skills

Java, Python, Django, JavaScript, TypeScript, React, MySQL, MongoDB, AWS, RESTful APIs, Git, Agile, Machine Learning, Spark.

Education

Monash University — Melbourne, Australia Master of Artificial Intelligence

Mar 2025 – Dec 2026

- Key Courses:** Fundamentals of AI, Deep Learning, Machine Learning, Natural Language Processing, Modelling discrete optimisation problems, Multi agent systems and collective behaviour, Industry experience studio project.

University of Strathclyde — Glasgow, United Kingdom Bachelor of Science: Software Engineering

Sep 2019 – Jun 2024

- Graduated with Second Class.
- Industrial Placement in Year 4 of the Degree.
- Key Courses:** Algorithms, Data Structures, Software Development Process, Design Patterns, Databases, Web Programming & Agile Methods.