

# Nithish Kumar Megarajan

## Master’s Student in Artificial Intelligence at Monash University

<https://nithishk.com/>[nithishkmegaraj05@gmail.com](mailto:nithishkmegaraj05@gmail.com)

<https://github.com/NithishK5><https://www.linkedin.com/in/nithish-kumar-megarajan-2a17b31b4/>

+61-401 960 785Melbourne, Australia

### 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.