Nithish Kumar Megarajan

Master's Student in Artificial Intelligence at Monash University

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Summary

Master's student in Artificial Intelligence at Monash University with a strong foundation in software engineering. Skilled in building scalable and production-grade systems using Python, Java, and C++. Experienced in developing clean, efficient code in agile environments. Passionate about working on complex, customer-focused problems with high impact and innovation.

Projects

LiveSent: Real-Time NLP Analytics for High-Volume Text Streams

- **Goal:** Built a full-stack application to analyze high-velocity chat streams and extract emotional signals.
- **Tech:** React, WebSockets, Python, FastAPI, fine-tuned DistilBERT. Optimized concurrency for ¡300ms latency at 10K msg/min throughput.
- **Impact:** 91% classification accuracy; reliable backend powering real-time dashboards for emotion insights.

SmartTagger: AI-Based Ticket Prioritization System

- **Goal:** Automatically classify and prioritize IT support tickets for efficient triage and resolution.
- **Tech:** Python, Flask, HuggingFace Transformers, PostgreSQL. Included confidence thresholding and escalation alerts.
- **Impact:** Reduced manual triage by 55% with 87% accuracy across real-world ticket data.

Other projects available on GitHub.

Experience

SMT, INDIA (Remote)

Software Engineer Intern

- Automated backend workflows in Python to reduce data retrieval latency by 30%.
- Developed LSTM-based NLP classifier to streamline CRM query handling.
- Collaborated with product and dev teams to deploy features that improved response efficiency by 25%.

4+ years part-time experience in the hospitality industry in Glasgow, working alongside academic pursuits.

Skills

Languages: Python, Java, C++, JavaScript, SQL

Frameworks/Tools: FastAPI, Flask, React, Git, Docker, WebSockets, AWS (basic)

Concepts: Data Structures & Algorithms, RESTful APIs, Cloud Systems, OOP, Agile/Scrum, Multithreading

Education

Monash University — Melbourne, Australia

Master of Artificial Intelligence   Mar 2025 – Dec 2026

- **Courses:** Machine Learning, Software Design, NLP, Deep Learning, Optimisation, Multi-Agent Systems

University of Strathclyde — Glasgow, UK

Bachelor of Science: Software Engineering   Sep 2019 – Jun 2024

- Industrial Placement in Year 4
- **Courses:** Algorithms, Databases, Web Dev, Design Patterns, Agile Methodologies