MANOJ MANIKANDAN

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EDUCATION

The University of Manchester — Manchester, United Kingdom | Sep 2023 — Jun 2026
Bachelor of Science (Honours) Computer Science | **Expected: First-Class Honours**

- **Year 2:** **81%**, **Top 15** in a class of **300**.
- **Courses:** Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Distributed Systems, Database Systems, Processor Micro-architecture, Operating Systems.

EXPERIENCE

N8 Computationally Intensive Reasearch | Jul 2025 — Aug 2025
Research Software Engineer Intern [Profile Link] | Manchester, United Kingdom

- Collaborated with **7 academics** to drive digitization initiatives in humanities fields, spearheading **6 projects**.
- Remodeled the codebase of the American Spoken Corpus site, reducing complexity by **50%**. Implemented a Dialect Map, for visualisation of over **150 transcripts**.
- Extracted and visualized migration patterns from over **70 interview transcripts** of the Troubles' victims.
- Devised a processing tool to pre-process, extract and collate a corpus of around **600 text documents** from Wikipedia XML exports.

HRBluSky, Pruvity Group | Apr 2023 — Aug 2023
Technology Intern

- Mentored under an ML expert to complete the project, gaining experience in code structuring, documentation, testing and technical writing.
- Evaluated performance of fine-tuned Language Models on templated text generation, streamlining the process of artificial document generation for HR by **65%**.
- Assembled an AI-based assistant to generate around **18 types** of HR documents, resulting in improvement of running basic operations around the workspace by **30%**.

SKILLS

- **Programming and tools:** Java, Spring Boot, Python, Rust, C, C++, PHP, ReactJS, JavaScript, MySQL, TypeScript, HTML, CSS, ARMv7 assembly, Verilog, SystemVerilog.
- **Technical:** Deep Learning, Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Language Models, Transformers, Transfer Learning, Prompt Engineering, Encryption Algorithms.

PROJECTS

Interactive Polish Magazine Transcriber [Link] | Aug 2025

- Engineered an interactive transcriber for Polish magazine scans, based on Google's `tesseract` transcription engine.
- Processed over **215 pages** of Polish Queer magazines and compiled their transcripts.
- Retrieved around **10,000 blocks** of texts, utilised in further analysis and study.

Wikipedia XML Parser [Link] | Jul 2025

- Fabricated a command line tool to pre-process and extract text from `Wikipedia XML exports`.
- Built a corpus of around **600 text documents** from medicine-related articles and talk pages.
- Integrated the tool to a workflow for medical data textual analysis and published the package to the TestPyPI index.

PennyWise - Student-friendly Budget Tracker [Link] | Sep 2023 — May 2024

- Scored **92%** for the overall project grade, for code quality and presentation.
- Collaborated with a team of **6 students** to develop a budget tracker for students, as part of the First-Year Team Project at University of Manchester.
- Presented the project to around **100 students**, boosting financial awareness and fitness.

LEADERSHIP AND AWARDS

University of Manchester — Manchester, United Kingdom | Sep 2023 — Jun 2026

- Attained the prestigious Manchester International Excellence Scholarship 2023, presented to only **50 students** out of around **3000 candidates**.
- Contracted and supervised GreatUniHack 2024, Manchester, with around 200 participants.
- Nominated as a Student Representative for a class of around **300** Computer Science students.
- Peer Mentor (PASS) for **20 underclassmen** to provide academic and well-being support.

JSS INTERNATIONAL SCHOOL — Dubai, United Arab Emirates | Jun 2015 — Mar 2023

- Received Proficiency awards for scoring above **90%** overall from Years 9 to 12.
- Co-founder and Tech support at CollegePrep101. Raised college preparedness among students by about **40%**.

CERTIFICATIONS

Deep Learning Specialization [Credential Link] | Aug 2024

- **Courses Completed:** Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models.