

GOUTHAM SATHEESH

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Profile

Second-year BEng (Hons) Artificial Intelligence student at Ulster University with a Year 1 average of 82% and a place on the Dean's List. Experienced in building machine learning and full-stack systems, from data pipelines and model validation to cloud and edge deployment. Seeking a 2027/28 industrial placement in AI, machine learning or software engineering.

Education

Ulster University, Northern Ireland 2025 - 2029

BEng (Hons) Artificial Intelligence

- Achieved a Year 1 overall average of 82% (First Class Honours range) and a place on the Dean's List.
- Completed Software Development I (92%), Computer Hardware & Operating Systems (91%), Software Development II (86%) and Database Systems (81%).
- Studying Algorithms & Data Structures, Object Oriented Programming (Java), Computer Networks & Security and Artificial Intelligence II.

Board of Higher Secondary Examinations, Kerala, India 2022 - 2024

Higher Secondary Certificate, Computer Science Stream

- Scored Mathematics 96.5%, Computer Science 93.5%, English 91%, Chemistry and Physics 90%.

Projects

CompanionSoil AI | Founder & AI Systems Architect 2025

- Won 1st place at the AWS Generative AI Hackathon 2025 against entries from 700+ universities. companionsoil.com
- Designed and deployed a full-stack AI platform (Next.js, FastAPI, PostgreSQL), now live on three farms.
- Built evapotranspiration models, Gemini multimodal soil analysis and a geospatial pipeline with CI/CD via GitHub Actions.
- Iterated 40+ times on user feedback; modelled 30% less chemical use and 40% water savings.

F1 Tyre Degradation & Pit-Stop Strategy Model 2026

- Engineered a data pipeline over 21,124 laps from 18 Grands Prix, modelling tyre wear and pit-lane time loss.
- Validated the model on unseen seasons, predicting the number of stops in 80% of dry races, with 37 automated tests.

Restaurant Ordering Platform | Full-Stack Developer 2026

- Created a customer ordering app and real-time admin dashboard with JavaScript and Firebase.
- Secured a server-side Stripe payment pipeline, closing a data exposure and a discount exploit.

Budha PI | Embedded AI Assistant | Raspberry Pi 5 2025

- Architected an offline AI assistant with a local LLM, neural speech synthesis and recognition.
- Cut response latency roughly tenfold by profiling the pipeline and switching models.

ML Trading Research System | Python, XGBoost, PyTorch, Streamlit 2026

- Built a walk-forward ML trading system and live dashboard; caught and fixed a misleading 60% accuracy metric.

Experience

Shift Runner, Team Leader - KFC, Derry~Londonderry October 2025 - Present

- Directed shift teams of 40+ staff in a time-critical environment, improving retention through mentorship.
- Mentored 5-10 new hires per month through structured coaching and on-shift support.

Student Panel Member - Ulster University Student Success Centre November 2025 - June 2026

- Represented student views in monthly panel meetings, influencing policy affecting 30,000+ students.
- Contributed to monthly employer panels, bridging student and industry views on workforce readiness.

Global Buddy - Ulster University, Derry~Londonderry November 2025 - Present

- Guided 15-20 international students each semester through academic and cultural integration.

- Campus Ambassador - Ulster University, Derry~Londonderry**

August 2026 - Present
- Promoted the university at recruitment, media and outreach events for prospective students.
- Social Media Content Creator - Ulster University Student Media**

December 2025 - Present
- Partnered with university departments on content strategy, producing videos showcasing campus life.
- Sales Assistant (Part-time) - National Insurance Co. Ltd, Kerala, India**

July 2024 - March 2025
- Advised 20-30 clients weekly and resolved 25-30 complex policy enquiries, raising satisfaction.

Skills

Programming: Python | JavaScript | SQL | C | Java (in progress) | HTML/CSS
AI & Machine Learning: Machine Learning | Deep Learning | XGBoost | Time-Series Forecasting | Statistical Modelling | LLM Deployment | Multimodal AI | Computer Vision | Prompt Engineering
Software & Cloud: Next.js | FastAPI | REST APIs | PostgreSQL | Firebase | Docker | Google Cloud | AWS | Azure | GitHub Actions | Git | Linux | pytest | Raspberry Pi
Leadership: Team Leadership | Project Management | Stakeholder Engagement | Cross-Functional Collaboration | Mentoring | Crisis Management
Core Competencies: Problem Solving | Analytical Thinking | Mathematical Modelling | Data Structures & Algorithms | System Architecture | Technical Communication

Certifications

Microsoft Certified: Azure Fundamentals
ISRC-CN3 Summer School: Computational Neuroscience, Neurotechnology and Neuro-inspired AI, Intelligent Systems Research Centre, Ulster University (online, Aug 2026)
Introduction to Cognitive Psychology and Neuropsychology, University of Cambridge ICE (online, in progress)
Foundations of Prompt Engineering (AWS) | Getting Started with Deep Learning (NVIDIA) | Ethics in Generative AI (PMI)

Awards & Achievements

1st Place, AWS Generative AI Hackathon 2025 (700+ universities, Sustainability Track)
Winner, Manchester City F.C. Sustainable Innovation Challenge 2026 (led multidisciplinary team)
Finalist, IDEATE Ireland 2026 | Dean's List and Graduate Award, Ulster University
Elected Course Representative | Students as Leaders and Students as Entrepreneurs, Ulster University
National-Level Boxer, Kerala State Amateur Boxing Federation | Rajya Puraskar, Governor of Kerala

Volunteer Experience

- Corporal, National Cadet Corps (29 Kerala Battalion)**

2022
- Led ~400 cadets through camp, managing health and safety and containing a disease outbreak; awarded Best Cadet.
- Unit Leader, The Bharat Scouts and Guides**

2018
- Headed the school Scout unit, organising social service initiatives and awareness drives.

References

Mairin Nicell - Learning, Teaching and Quality Director, School of Computing, Engineering and Intelligent Systems
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