Nimijith Nimmi Jayan

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TECHNICAL SKILLS

- **Programming:** Python (advanced), Java, C, C#, SQL
- **AI / ML:** Machine Learning (classification, regression), Deep Learning (CNNs, transfer learning), Reinforcement Learning (MDP, Q learning, Policy Iteration), Search & Planning (A*, PDDL)
- **Frameworks / Libraries:** TensorFlow/Keras, NumPy, Pandas, Scikit-learn, Matplotlib, Django (REST basics), .NET (WinForms)
- **Tools**: Git, GitHub, Google Colab, Jupyter, Linux (basic), Eclipse, IntelliJ, VS Code, Visual Studio
- **Practices:** Agile, Software Development Lifecycle, Unit Testing

EDUCATION

MSc Artificial Intelligence *(Ongoing)* | Heriot-Watt University, Edinburgh, UK | Sept 2024 – Sept 2026

- **Modules**: Data Mining & Machine Learning, AI & Intelligent Agents, Statistical Modelling and Analysis, NLP, Biologically Inspired Computation, Software Engineering Foundations, Advanced Software Engineering, Industrial Programming

BSc in Physics, (*2:1*) | Govt. Brennen College, Kannur University, India | Aug 2008 – Apr 2011

PROJECTS

Personal Projects:

Hospital Management System (Python, Django)

- Developed a full-stack hospital management system with role-based access for admin, staff, and doctors
- Implemented authentication, session management, and access control using Django Auth
- Designed appointment scheduling logic with availability tracking and CRUD operations for staff and patient records

Academic Projects:

Music Genre Classification (Python, CNN, ML)

- Built machine learning and CNN based models to classify music genres from audio features and spectrograms
- Implemented data preprocessing, train/validation/test split, augmentation, and model evaluation

Mini Browser Application (C#, .NET WinForms)

- Developed a GUI based mini web browser using C# and .NET WinForms, implementing HTTP requests, navigation history, bookmarks, and event driven UI logic

Document Analysis & Analytics Tool (Python)

- Built a Python document analysis tool to compute statistics and visualise insights using generated graphs

Biologically Inspired Computation (ANN with PSO)

- Designed a custom Artificial Neural Network optimised using Particle Swarm Optimisation (PSO)
- Analysed the impact of network architecture, activation functions, and PSO hyperparameters on performance

Natural Language Processing (Python)

- Implemented NLP pipelines covering tokenisation, n-grams, language models, and text similarity
- Analysed model behaviour using different decoding strategies and evaluation metrics

Coffee Shop Simulation System (Java)

- Developed a Java-based simulation system modelling order handling, queuing, and workflow automation
- Applied object-oriented design principles, modular architecture, and collaborative version control

Project Management (E-Waste Bin System)
- Created a complete **project plan** including scope definition, scheduling, risk analysis, and cost estimation
- Applied CPM, resource planning, and project control techniques

AI Algorithms & Tic-Tac-Toe Agent (Java)
- Implemented AI agents using A* search, PDDL planning, and reinforcement learning techniques
- Built and evaluated intelligent decision-making strategies in a turn-based game environment using state evaluation and policy logic

CERTIFICATIONS
- **Python for Data Science and Machine Learning Essential Training** *(Ongoing)* - LinkedIn Learning
- **Python Programming Certified User** - Illinois Institute of Technology (via Entri Elevate Programme), Oct 2025
  (Completed with Grade A+)
- **Introduction to Java** - LearnQuest (Coursera), May 2024
  (Verify at: https://coursera.org/verify/28T2C8YPQWLS)

WORK EXPERIENCE

Crew Member | McDonald's, Edinburgh | Sep 2025 – Present
- Worked in a fast-paced kitchen environment as part of a large team, adhering to quality, safety, and hygiene standards
- Followed strict procedures, time targets, and teamwork practices during peak service hours

Preload Sorter & Loader | UPS, Edinburgh | Nov 2024 – Sep 2025
- Organised, and handled high parcel volumes (≈1,200 per shift) across 25+ delivery routes to meet strict morning dispatch deadlines
- Maintained high accuracy in parcel sorting and routing, minimising delivery delays and misroutes
- Coordinated with multiple warehouse teams during unloading and sorting to support smooth and timely morning operations.

Customer Service & Digital Operations Lead | India Post, Government of India | Jun 2011 – Jul 2024
- Supported the rollout of online systems for postal financial services contributing to improved transaction reliability, and received formal commendation for supporting technology adoption
- Handled high-volume customer interactions (1000+ per month), resolving service, savings, and insurance related queries with consistently positive feedback
- Streamlined routine service processes using existing internal systems, helping reduce manual errors and improve turnaround times
- Worked with SAP based inventory systems to track and coordinate postal goods and administrative supplies across offices
- Processed and cross-checked savings schemes and life insurance transactions for a large customer base, ensuring accuracy and compliance in a high volume, data driven environment
- Mentored and trained junior staff on digital tools and operational procedures, supporting smoother onboarding

ADDITIONAL INFORMATION
- **Volunteer (Retail Support)** - British Heart Foundation, Edinburgh *(Jul 2025 – Sep 2025)*
  Supported till operations, customer interactions, and basic query resolution in a busy retail environment
- **Volunteer (Upcoming)** - European Chatbot & Conversational AI Summit *(Mar 2026)*
- **Languages**: English (Fluent), Malayalam (Native), Hindi (Conversational)

Hobbies and Interests: Fitness enthusiast with a strong interest in strength training and Olympic weightlifting, and a keen follower of cricket.