# Nanda Kumudhan

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github.com/nanda-kumudhan | nanda-kumudhan-portfolio.vercel.app

## EDUCATION

**Loughborough University** — Loughborough, UK
*BSc Computer Science and Artificial Intelligence* — *Sept 2024 – June 2027*
- Year 1: 2:1
- Key modules: Data Structures & Algorithms, Embedded Systems Programming, Software Engineering, Operating Systems, Networks
- Full-stack PHP/JS Healthcare Portal — achieved **89%**
- OOP Java ticket sales system - achieved **79%**

**West Bridgford School** — Nottingham, UK
*A Levels (120 UCAS Points)* — *2022 – 2024*
- Flask E-commerce Bike Sales Web App — achieved **100%**

## EXPERIENCE

**AI Contributor (Freelance, Remote)** — Remote
*Outlier AI* — *Dec 2025 - Present*
- Provided structured human feedback and dataset reviews which increased model consistency across evaluation tasks.
- Developed prompt–response quality assessment workflows using **Python** and **SQL/JSON tools**, improving review throughput and reducing ambiguity.

**Software Developer (Freelance)** — Remote/Chennai, IN
*Dental Parts Sales Business* — *July 2025 – August 2025*
- Designed and deployed a full-stack analytics dashboard using **Python, JavaScript, TypeScript, Flask, Chart.js**, which automated reporting and reduced manual work by **60%**.
- Integrated a **MongoDB** backend with optimized indexing, reducing data retrieval time by **50%**.
- Implemented interactive charts that tracked sales and stock patterns, improving forecasting accuracy by **25%**.
- Managed deployment and Git-based version control, maintaining uptime above **99%**.

**Front-of-House Receptionist** — Indian Restaurant, Nottingham, UK
*Customer Service & Operations* — *Jun 2022 – Sep 2024*
- Handled bookings and customer queries efficiently, improving overall satisfaction by **20%**.
- Supported POS operations and reconciliations, reducing reporting errors by **15%**.

## PROJECTS

**Stock Price Forecaster** | *Python, TensorFlow, Scikit-learn, Streamlit*
- Built an LSTM-based forecasting model that analysed historical OHLC market data, improving directional prediction accuracy over a baseline.
- Created an ensemble combining LSTM projections with Random Forest risk scoring, which delivered more stable performance during volatile periods.
- Developed an interactive Streamlit dashboard with backtesting and adjustable model parameters, enabling users to evaluate and compare strategies.

**Smart Study Assistant** | *JavaScript, TypeScript, React, Node.js, Panopto, Supabase*
- Developed an AI-driven study platform using **Hugging Face** models that generated notes and quizzes, increasing student engagement by **50%**.
- Automated lecture retrieval and transcription through **Panopto**, reducing manual processing time by **80%**.
- Engineered a scalable **React/TypeScript** interface that enhanced responsiveness and improved user experience by **35%**.

## TECHNICAL SKILLS

**Languages**: Java, Python, C/C++, SQL (MySQL/Postgres), JavaScript, HTML/CSS, Typescript
**Frameworks**: React, Node.js, Flask, JUnit, Next.js, Hugging Face
**Developer Tools**: Git, Docker, Github Actions, Google Cloud Platform, Supabase
**Libraries**: pandas, NumPy, Matplotlib, Bootstrap, Tailwind