

Lee Hayton

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Personal Profile

Experienced AI Developer and Builder with a passion for designing scalable machine-learning systems and leading cross-functional teams. As a parent and musician, I bring creativity, patience and strong communication skills to every project. Keen to drive innovation in AI-driven products and mentor junior engineers.

Key Skills

Programming & Frameworks: Python, TensorFlow, PyTorch, JavaScript (Node.js)

Machine Learning & Data Science: NLP, computer vision, deep learning, data engineering

DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3, SageMaker), CI/CD pipelines

Leadership & Collaboration: Agile methodologies, technical mentorship, stakeholder engagement

Other: Git, SQL/NoSQL databases, REST APIs, unit testing, technical writing

Professional Experience

Senior AI Developer – Tech Innovators Ltd, London

April 2022 – Present

Led a team of 5 engineers to design and deploy an NLP pipeline for automated contract review, reducing manual review time by 60%.

Implemented microservices architecture on AWS, improving system reliability and reducing deployment times by 40%.

Collaborated with product and legal teams to translate business requirements into technical specifications.

Mentored junior developers, ran weekly knowledge-share sessions, and introduced best practices for code quality and testing.

Software Engineer – NextGen Solutions, Cambridge

April 2019 – December 2021

Developed real-time recommendation engine using collaborative filtering and deep learning, increasing user engagement by 25%.

Built RESTful APIs in Node.js to serve model predictions at scale, handling 10k+ requests per minute.

Automated data-preprocessing workflows with Airflow, cutting data-prep time by 50%.

Acted as Scrum Master for two sprints, coordinating planning, reviews and retrospectives.

Data Analyst – Insight Corp, Manchester

October 2017 – December 2018

Analysed customer behaviour datasets (100M+ rows) using Python (pandas, scikit-learn), identifying key churn predictors.

Presented findings to senior management, informing a revised customer retention strategy that reduced churn by 12%.

Created dashboards in Tableau to visualise KPIs across marketing and sales teams.

Trained 10+ staff in basic data-analysis techniques and dashboard use.

Data Analyst – Insight Corp, Manchester

September 2016 – June 2017

Analysed and cleaned large sales datasets, producing weekly reports that supported pricing strategy adjustments.

Supported senior analysts with exploratory data analysis and model prototyping.

Education

MSc in Artificial Intelligence, University of Oxford, UK | 2015 – 2016

BSc (Hons) Computer Science, University of Cambridge, UK | 2012 – 2015

Certifications

AWS Certified Machine Learning – Specialty

TensorFlow Developer Certificate

Projects & Interests

Personal Home Automation: Built a Raspberry Pi-based smart home hub to control lighting and heating via voice commands.

Open-Source Contributor: Regularly contribute to scikit-learn and Hugging Face transformer libraries.

Musician: Classically trained guitarist; perform regularly at local venues.

Parent & Builder: Design and construct DIY educational toys and coding kits for my children.