EESHA SONDHI

AI SOLUTIONS ENGINEER

Eesha.sondhi.uk@gmail.com | +44 (0)7485178987 | www.linkedin.com/in/eesha-sondhi-633abb1b3

EDUCATION

Imperial College London, Dyson School of Design Engineering **Sept 2021 - July 2025**

Design Engineering (MEng)

- Expected 2/1 (Graduation October 2025)

Lady Eleanor Holles School **Sept 2015 - Jul 2021**

Secondary School

- A*A*A* at A-Level in Maths, Physics, Art
- 9 A* and 1 A at GCSE Level

WORK EXPERIENCE

Butterfly Air, AI Solutions Engineer and Product Manager **Mar 2024 - Jun 2025**

- Independently developed a custom AI-driven time series forecasting model using NeuralProphet, fusing autoregressive methods with neural networks to predict indoor air quality metrics with state-of-the-art ~94% accuracy over a 12-hour forecast window.
- Collaborated with cross-functional teams, including software developers to optimise and implement AI functionalities, and meet client needs.
- Designed and implemented a language model (LLM) - ChatGPT, to analyse forecast data and provide actionable insights, aligning AI development with user experience goals.
- Built an AI Agent using a Retrieval Augmented Generation model implemented through LangChain with no hallucinations.
- Evaluation of the features using the RAGAS framework and k-fold cross-validation for the AI Agent and Forecasting model respectively.

Mastercard, Product Management Internship **Jun 2023 - Sept 2023**

- Collaborated with the Partnerships Product Management team to analyse and optimise the integration of Mastercard's payment gateway with key fintech partners.
- Gained in-depth knowledge of payment gateway operations, contributing to the enhancement of fintech solutions across global partnerships.
- Participated in a Global Innovation project, exploring cutting-edge payment technologies and their applications in the fintech landscape.

PROJECTS

AI-Powered Pharmaceutical Data Pipeline (n8n, Supabase, Low-Code) **Jun 2025**

- Built a fully automated pharma intelligence pipeline using n8n for web scraping, LLM integration, and database updates
- Used OpenAI to extract structured insights (drugs, NHS connections, HQ location, etc.) from unstructured web content
- Stored and deduplicated results in a Supabase PostgreSQL database
- Enabled data exploration via a React-based dashboard built with v0.dev, powered by real-time Supabase queries
- Combined low-code automation, LLM-powered NLP, and SQL to create a scalable and extensible AI data product

Masters Project: LLM integration, AI Agents, RAG Models and Finetuning ML models **Aug 2024 - Jun 2025**

- “Transforming Indoor Air Quality Management at Butterfly Air through AI: Neural Prophet Forecasting and RAG-based AI Agent Integration“
- Creating data pipelines to implement a RAG model to optimise an AI Agent
- Developed a functional conversational AI Agent for indoor air quality using
- Used Autoregressive Neural Networks and fine-tuning methods to create a predictive model for forecasting IAQ metrics.

TECHNICAL SKILLS AND INTRESTS

Programming Languages: Python, HTML, CSS, JavaScript, MATLAB
Libraries & Frameworks: PyTorch, TensorFlow , scikit-learn, pandas, NumPy, matplotlib
AI & Automation Tools: n8n, v0, Claude, CodeEx
Version Control & Dev Tools: GitHub
Data & Modelling Skills: Time-series forecasting, Machine Learning, Deep Learning techniques
Design & Prototyping Tools: Figma, Adobe Illustrator, Photoshop, InDesign, Procreate, Canva, Fusion360
Technical Interests: AI automation, low-code tools, data-driven decision-making, predictive modelling, explainable AI

PERSONAL SKILLS AND INTRESTS

Achievements:
• 1st Dan Black Belt in MMA
• European Karate Champion, 2019
• Imperial College Bhangra Dance Captain & Choreographer, 2023

Interests: Travel, Swimming, Cooking, Bhangra (Dance), Dhol (Indian Drum), MMA