

Experience

<b>BGC - Cantor Fitzgerald</b>	<b>January 2024 - July 2024</b>
Automation Intern	London, United Kingdom
<ul style="list-style-type: none"><li>Task Automation: Automated routine tasks by developing and enhancing PowerShell scripts, integrating data analytics to align with business objectives and improve team efficiency.</li><li>Script Maintenance: Assisted in bug fixes and troubleshooting issues in existing scripts, demonstrating attention to detail and strong communication skills to ensure smooth operations.</li><li>Cloud Technologies: Gained hands-on experience with Azure Cloud, managing resources and optimizing workflows using dashboards and Excel for effective data analysis and reporting.</li></ul>	

<b>PeopleLink</b>	<b>June 2022 - July 2022</b>
Digital Marketing and Datamining Intern	Hyderabad, India
<ul style="list-style-type: none"><li>Data Analysis: Supported digital marketing strategies through comprehensive data analysis using Excel and statistics to deliver insights concisely and articulate findings effectively.</li><li>Campaign Optimization: Optimized outreach campaigns by leveraging data mining and analytics, fostering professional growth in a supportive environment while aligning with business objectives.</li></ul>	

Education

<b>University of Southampton</b>	<b>September 2024 - September 2025</b>
Artificial Intelligence	Master's Degree
Merit	
<ul style="list-style-type: none"><li><b>Dissertation:</b> Developed a deep learning framework combining a 1D-CNN with Conformal Prediction to provide robust heart rate estimates and calibrated uncertainty intervals from wearable PPG sensors, effectively mitigating motion artifacts.</li></ul>	

<b>ICFAI Tech University</b>	<b>July 2020 - July 2024</b>
Computer Science and Engineering	Bachelor's Degree
Distinction	

Projects

<b>Domain-Specific RAG Architecture with Multi-Layer Caching</b>
<ul style="list-style-type: none"><li>Developed a retrieval-augmented generation (RAG) pipeline with a dual-layer semantic cache (L1 exact, L2 cosine) in Redis, reducing response latency from seconds to milliseconds while maintaining verified sources.</li><li>Integrated a fact-checking module enforcing authoritative context and domain safety disclaimers, ensuring medical and financial reliability within a Streamlit-based LLM interface.</li></ul>
Python, Streamlit, Redis, OpenRouter API

<b>Automated Brain Tumor Classification with Deep Learning</b>
<ul style="list-style-type: none"><li>Built and compared deep learning models for MRI-based tumor detection using ResNet-50 and Vision Transformer architectures, achieving 99% classification accuracy.</li><li>Applied data augmentation and transfer learning to improve generalization and reproducibility, packaging code for end-to-end training and evaluation.</li></ul>
TensorFlow, ResNet50, Vision Transformer

<b>Music Genre Classification using Deep Learning</b>
<ul style="list-style-type: none"><li>Implemented and compared CNN and LSTM variants on the GTZAN dataset, achieving 75.25% accuracy using CNNs with Batch Normalization on Mel-spectrogram inputs.</li><li>Streamlined preprocessing, spectrogram conversion, and evaluation using modular PyTorch pipelines and reproducible notebooks.</li></ul>
PyTorch, Librosa, CNNs, LSTMs

Volunteering

<b>Enactus UK &amp; Ireland</b>	<b>2024 - Present</b>
Member	
Participating in community projects and social enterprise initiatives.	

Skills

<b>Programming Languages</b>
Python, C, C++, SQL, JavaScript (React.js)
<b>ML Tools</b>
TensorFlow, PyTorch, Scikit-Learn, OpenCV, Hugging Face, FastAPI
<b>Data Science</b>
NumPy, Pandas, Matplotlib, Seaborn
<b>Technologies &amp; Concepts</b>
Machine Learning (ML), Deep Learning (DL), Computer Vision, NLP, AI
<b>Soft Skills</b>
Leadership, Innovation, Public Speaking, Technical Writing, Event Management

Certifications

<b>Google AI Essentials Certification</b>	<b>August 2025</b>
Google	
<a href="https://www.coursera.org/account/accomplishments/verify/HJV7ITUANWYO">https://www.coursera.org/account/accomplishments/verify/HJV7ITUANWYO</a>	
<b>GitHub Copilot</b>	<b>June 2025</b>
GitHub	
<a href="https://www.credly.com/badges/f43652cf-9540-4282-9b9e-a9334d703409/linked_in_profile">https://www.credly.com/badges/f43652cf-9540-4282-9b9e-a9334d703409/linked_in_profile</a>	
<b>Artificial Intelligence Fundamentals</b>	<b>October 2025</b>
IBM	
<a href="https://www.credly.com/badges/9e6f3425-0797-41f6-ae60-baccad2fdef4/linked_in_profile">https://www.credly.com/badges/9e6f3425-0797-41f6-ae60-baccad2fdef4/linked_in_profile</a>	
<b>Amazon Web Services AWS Certification</b>	<b>August 2022</b>
Amazon Web Services	

Publications

<b>Metaverse and Blockchain Use Cases and Applications</b>	<b>12 August 2025</b>
Taylor and Francis Group	
<a href="https://doi.org/10.1201/9781003559269">https://doi.org/10.1201/9781003559269</a>	
Explored the integration of blockchain in virtual worlds with an emphasis on security, transparency, and digital asset ownership. Analyzed NFT applications in entertainment, gaming, and art and investigated blockchain-driven DeFi ecosystems.	