

Moeed Chughtai

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EDUCATION

University of Manchester <i>BSc Computer Science (Predicted First Class)</i> <i>Modules: Software Engineering, Data Science, Machine Learning, Databases, Visual Computing, Distributed Systems</i>	2023-2026
Altrincham Grammar School for Boys <i>A-levels: Computer Science (A*), Mathematics (A*), Further Mathematics (A*), Physics (A)</i>	2016-2023

EXPERIENCE

Machine Learning Engineer <i>ZR Tech</i> <ul style="list-style-type: none">Developed a real-time voice-to-text system with Google API and a custom web interface for analytics.Applied deep learning CNNs (ResNet-50, NasNetLarge) for COVID-19 classification, with 92% accuracy.Built a market analysis model with Regression and Random Forest, boosting conversion rates by 15%.	Mar 2024 - Present
Software Engineer <i>TMC Solicitors</i> <ul style="list-style-type: none">Launched 3 websites using Next.js and MongoDB, resulting in an average increase of 1,500 monthly visitors.Developed a custom CMS with PHP and MySQL for website management, user control and file handling.	Feb 2023 - Present
Software Engineering Intern <i>IBM</i> <ul style="list-style-type: none">Optimised database schema by removing redundant attribute value overrides, boosting query speed by 15%.Designed and tested RESTful APIs, ensuring secure data exchange and integration with third-party services.Engaged in 2-week Agile sprints, including planning, daily stand-ups and retrospectives to review progress.	July - Aug 2024
Backup Systems Intern <i>Macrium Reflect</i> <ul style="list-style-type: none">Wrote 5000 lines of C/C++ for VHDX and Linux image conversion, with incremental backups and encryption.Documented code for open-source projects, detailing image formats and backup layouts for independent access.	June - July 2024

PROJECTS

MedAssist (GitHub) <i>Python, TensorFlow, Scikit-learn, OpenCV, Flask, React Native, MySQL</i> <ul style="list-style-type: none">Developed a ML medical diagnostic app with 90% accuracy, using neural networks and decision trees.Built a treatment recommender system using collaborative and content-based filtering, trained on 100k profiles.Used CNNs and computer vision to detect anomalies in brain scans and X-rays, achieving 80% accuracy.	July - Aug 2024
DeepProof (GitHub) <i>Python, TensorFlow, OpenCV, Flask, React</i> <ul style="list-style-type: none">Created a system that processes 10,000 videos, converting frames to images and detecting faces with MTCNN.Developed a model with EfficientNetB0, achieving 92% accuracy with data augmentation and regularisation.	July 2024
Inform UK (GitHub) <i>JavaScript, React, Python, Flask, MongoDB</i> <ul style="list-style-type: none">Won 1st place at BarCamp London Hackathon for a web app that improved voter access to election information.Integrated APIs (Parliament, Democracy Club, ONS) to provide location-specific information for 5,000+ areas.Implemented an OpenAI-powered chatbot for tailored responses on election queries and candidate info.	June 2024

SKILLS

Languages: JavaScript, HTML/CSS, Python, Java, Kotlin, C/C++, SQL
Libraries/Frameworks: React, Next.js, Express, Node.js, Flask, TensorFlow, Scikit-learn, OpenCV, Pandas, Numpy
DevOps/Databases: Docker, AWS, Git, MySQL, MongoDB, Firebase

CERTIFICATIONS

Coursea: [Supervised ML](#), [Advanced Learning Algorithms](#) and [Unsupervised Learning](#)
Azure: AI Fundamentals, Data Fundamentals, Cloud Fundamentals