

Ammar Nagri

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EDUCATION

The University of Manchester - Incoming <i>BSc. in Computer Science and Mathematics with Industrial Experience</i>	Sept 2025 — Present <i>Manchester, GB</i>
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WORK EXPERIENCE

Software Engineer - Work Experience Flyt (Merged into JustEat)	Aug 2022 — Aug 2022 <i>Farringdon, GB</i>
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- Built a production-ready Go microservice endpoint for order status using OpenAPI and internal tooling.
- Developed modular HTTPHandler logic for query parsing, database access, and error handling.
- Wrote unit tests with Go's httptest to validate both success and failure execution paths.
- Deployed the service and verified correctness through Postman-based integration testing.

Software Engineer - Work Experience Abyl	Oct 2022 — Oct 2022 <i>Remote</i>
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- Designed and tested a curl command using Postman, which was integrated onto the Abyl website.
- Implemented and tested Abyl's REST API endpoints, feedbacking to development and documentation teams, improving end-to-end API guidance

Software Engineer studyboost.gg	Jul 2025 — Aug 2025 <i>Remote</i>
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- Created a confidence score combining correctness, time efficiency, and difficulty with adaptive weighting.
- Designed a scalable metric for personalised feedback in adaptive learning systems.

PROJECTS

Researcher, Big Data: ATLAS	Sept 2023 — June 2024
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- Collaborated on a research paper alongside 4 groupmates with the aim to Z^0 boson by reconstructing it and calculating its invariant mass through observing its two primary decay routes, using data collected by the ATLAS detector.
- Attended a masterclass held by Oxford PhD students at the University of Oxford and presented the poster at a conference in London.

Student, Activation Function Effects on Convergence	Aug 2025
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- Engineered reproducible deep learning pipelines in PyTorch with deterministic seeding and automated loss tracking to classify the MNIST dataset.
- Implemented modular experimentation framework to evaluate activation functions across MLP and TinyVGG architectures.

Student, LSTM / RFR BTC Price Regression	Dec 2023 — Oct 2024
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- Developed LSTM and RFR models, using Keras, on BTC close prices to regress prices under different compute budgets.
- Implemented a custom timing handler to pause model training on demand, enabling control over training duration.
- Produced a 4000 word report outlining the methodology and visualised the results using matplotlib.pyplot.

COMPETITIONS

Junior/Intermediate/Senior Mathematics Challenge (Gold)

UKOAI (UK Olympiad in Artificial Intelligence, Silver)

SKILLS

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- **Languages:** Python, Java, Golang, Typescript
 - **Frameworks:** Tensorflow, Pytorch, NumPy, Pandas, matplotlib, scikit-learn, hugging-face, OpenCV, XGBoost
 - **Spoken Languages:** English, Gujarati, Mandarin (GCSE Level 7), French (IB Level 6)
 - **Interests:** Writing and listening to music, Swimming, Football, Rock climbing