Anmol Goyal

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Education

King's College London London, UK
BSc (Hons) Mathematics with Statistics *Sep 2024 – Jul 2027*

- **Final year:** Statistical Inference, Time Series Analysis, Fundamentals of Probability Theory, Numerical & Computational Methods with Python, Theory of Complex Networks, Design of Experiments, Mathematical Finance I; final-year project on liquid neural networks.
- **Prior:** Statistical Modelling, Probability & Statistics I & II, Applied Probability Models, Random Structures & Algorithms, Linear Algebra & Geometry I & II, Discrete Mathematics.

Experience

Oxford Dynamics Harwell Science Campus, Oxfordshire
Visiting Student AI Researcher *Sep 2026 – Present*

- Leading research on **liquid time-constant (LTC) networks as adaptive filters**, run as my KCL final-year project in collaboration with Oxford Dynamics.
- Investigating whether the learned, input-dependent time constants of LTC networks correspond to the Kalman gain of an optimal linear filter, connecting continuous-time neural ODEs with classical state estimation.

Robotics Intern *Jun 2026 – Sep 2026*

- Joined with no robotics background and learned the mechanics of a 6-DoF robotic arm.
- Picked up ROS 2 from scratch and built a controller for the arm in **Python** using **ROS 2** and **MoveIt**.
- Recreated the arm in **NVIDIA Isaac Sim** while shadowing the company's research on vision-language-action models (VLAs) and vision-language models (VLMs).

Leadership & Outreach

Co-President, IBM Z Society & IBM Z Student Ambassador, KCL *Jul 2025 – Jun 2026*

- Represented IBM Z on campus: hosted talks with Amazon engineers and an IBM director, ran workshops, and grew a mainframe learning community on IBM's Z Xplore platform.

Founder & President, KCL Financial Literacy Society *Jan 2025 – May 2026*

- Founded a society teaching students practical personal finance, from budgeting to investing.

NMES Faculty Student Representative, KCL *Oct 2025 – Sep 2026*

- Selected to represent NMES students; analysed ∼150 survey responses and presented findings to staff.

Student Ambassador (Subject Ambassador & Online Events), KCL Mathematics *Nov 2025 – Sep 2026*

- Presented to audiences of 20–60 at outreach events and helped run online Q&As and webinars for applicants.

Participant, King's Entrepreneurship Institute Online Incubator *Aug 2025*

Volunteer Python Instructor, Code Your Future *Aug 2024 – Jan 2025*

Skills

Programming	Python, SQL, R, JavaScript, Java, LaTeX
Robotics	ROS 2, MoveIt, NVIDIA Isaac Sim
Data & ML	pandas, matplotlib, BeautifulSoup, statistical modelling (regression, diagnostics, model selection)
Mathematics	Probability, stochastic processes, state estimation (Kalman filtering), linear algebra
Tools	Git, Linux, IBM Z & LinuxONE
Certifications	IBM Z Xplore: Concepts; IBM Z & LinuxONE Community Contributor 2025 (Level 1)
Languages	English (fluent), Hindi (native), Punjabi (intermediate), Spanish (elementary)