Suyash Agarwal

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Education

University of Oxford *October 2020 – June 2024*
MEng Engineering Science, First Class *Oxford, UK*

- Specialised in machine learning, control theory and signal processing.
- Achieved a first-class degree and earned a Keble college academic scholarship.
- Won the 2024 Bennett prize for Best Final-Year Project Presentation.
- Recipient of a Diamond Jubilee Scholarship from the Institution of Engineering and Technology.

Experience

Paddington Robotics *January 2026 – Present*
Machine Learning Engineer *London, UK*

- Deploying computer vision models on edge devices for low-latency, safety-critical multi-camera tracking.

Cortexlab, UCL *September 2024 – January 2026*
Research Engineer *London, UK*

- Developed DeepUnitMatch, a novel method to identify neurons in electrophysiology data, enabling neuroscientists to track more neurons over longer timescales and with greater accuracy. The method uses an autoencoder and contrastive learning on time-series waveforms generated by action potentials.
- Created a data curation tool for multi-channel 3D volumetric calcium imaging data from Suite3D.
- Built Alfred, an LLM-powered tool for automatic data analysis, used by researchers at Google DeepMind.

Stealth startup *May 2025 – September 2025*
Data Science / ML consultant *London, UK*

- Developed and validated proof-of-concept models to establish key indicators of data quality and generalisability, directly informing an early-stage neurotech/AI startup's core IP.
- Authored a technical whitepaper on data exploration outcomes, which has been used to secure a $3m venture capital investment offer.

Computer Vision Lab, ETH Zurich *June 2023 – September 2023*
Research Fellow *Zurich, Switzerland*

- Built a ROS pipeline in C++ for robotic grasp pose detection from point cloud data, successfully performing collision checking and inverse kinematics on candidate grasps and executing the optimal one.

Projects

University of Oxford *2023 – 2024*
Masters' Project *Oxford Robotics Institute*

- Published a first-author paper in IET Radar, Sonar & Navigation Journal on a novel, scalable radar-based place recognition system for autonomous vehicles.
- Introduced principled uncertainty estimation into a ResNet architecture via Bayesian deep learning, enabling safer and more trustworthy navigation in challenging conditions.

Skills, Awards & Interests

Programming languages	Python, SQL, C++, C, MATLAB, Bash
Frameworks & Tools	PyTorch, OpenCV, Docker, Linux, React, NodeJS, Flask, ROS, Git, LaTeX
Awards	Top Gold Award in British Physics Olympiad (top 50 in UK), British Mathematical Olympiad, UKMT Intermediate Olympiad medals (top 50 in UK)
Interests	Captain of Mens' Seals tennis team at Oxford University Lawn Tennis Club for 2 years, Guitar, Bouldering, Running, Fluent in Hindi