Imran Ahmed

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EDUCATION

University of Cambridge, Gonville & Caius College 2014 – 2018
BA and Masters (MEng) in Information & Computer Engineering
First Year Grade: *1st,* ***Second Year Grade:*** *1st,* ***MIT GPA:*** *5.0/5.0,* ***Masters Grade****: Distinction* (Top 10%)
Masters Project: Automatically identify lung abnormalities from sounds recorded on a digital stethoscope

Massachusetts Institute of Technology, Cambridge-MIT Exchange 2016 – 2017
Research Projects*:* CPU-based astronaut detection for the ISS; RL for the treatment of Sepsis (NeurIPS '17 ML4H workshop paper)

EXPERIENCE AND SKILLS

McKinsey & Company, QuantumBlack: *(Analytics Consultancy) – Data Scientist & Business Analyst* Aug '18 – Present

- Worked in both consulting (Business Analyst) and technical (Data Scientist) roles on a range of data-driven analytics projects for clients in Utilities, Banking, Pharmaceuticals, and Private Equity
- Co-authored McKinsey's first machine learning publication, presented at ICLR's DebugML & ICML's AIFSG workshops
- Redesigned QuantumBlack's Data Science technical hiring tests and interview process – to be rolled-out worldwide

Vivacity Labs, London: *(Computer Vision and Machine Learning Start-up) – Product Manager Intern* June '17 – Sept. '17

- Led the design and development of a novel Cordova-based mobile transport app ("MotionMap") to commercialise one of the world's largest city-wide smart-sensor deployments in Milton Keynes, UK.
- Developed internal web-tools to reduce the time spent manually annotating facilities within cities by more than five-fold.
- Facilitated the installation of the sensor network by creating algorithms to help lower installation costs by > £50,000.

Interactive Robotics Lab, MIT: *(Robotics Research Group) – Undergraduate Researcher* Sept. '16 – June '17

- Developed an astronaut detection system for the International Space Station, using machine learning. This formed part of a NASA-led research project at MIT for an autonomous robot ("Astrobee") which will be deployed on the ISS.
- Improved an open-source detection system and implemented a multi-processing module for parallelised classification.

EXTRACURRICULAR PROJECTS

McKinsey Venture Academy: *Student Social Enterprise Accelerator; Mentorship co-lead* Sept. '18 – Mar. '19

- Co-managed the mentorship of ~45 finalists in this competitive programme for students at UK universities.
- Partnered with individuals at Entrepreneur First, Oxford's Skoll Centre, and Grameen Impact Investing to produce a series of educational webinars which covered various elements of social enterprise.

Hackbridge.io: *Student Innovation & Making Group; https://hackbridge.io* Jul. '17 – Jul. '18

- Founded a student organisation to foster an undergraduate 'maker' environment at Cambridge University, by organising weekly hackathons to encourage student to work on innovative side-projects/research.

Pure Interaction: *HackMIT 2017 Top 10 finalist; Microsoft Prize Winner* Sept. '17

- Created software to allow users to browse and interact with the web with just their gaze, facial expression and voice.

SpatialRL: *Improbable Prize Winner, Hack Cambridge 2017* Jan. '17

- Created a novel platform to facilitate the training of Reinforcement-Learning agents by combining Unity and SpatialOS.
- Successfully implemented DQNs to achieve a 'proof-of-concept' task and also demonstrated that our platform could be used to train an A3C algorithm. Our team was awarded the Improbable prize at Hack Cambridge.

Educational Video Compression: *Prize Winner, Facebook Global Hackathon Finals; http://ylgh.github.io* Oct. '16 – Dec. '16

- Created a method to compress educational videos by 100x to reduce the data cost of accessing online education.
- We productised and donated our algorithm to DotLearn, an MIT-based education startup working on a similar problem.

Cambridge University Eco Racing, Cambridge UK: *Solar Vehicle Development; Business Manager* Oct. '15 – June '16

- Led a 10-person team to raise funds for this student-run organisation with an operating budget in excess of £1m.

AWARDS AND ACHIEVEMENTS

2017 – RAEng Future of Engineering Prize (Runner-Up): A national prize for engineers who display strong entrepreneurial talent.

2017 – MIT Sandbox Innovation Fund: Awarded a $5,000 grant to support the development of ML-based side-projects.

2015 & 2016 – Scholarships to Caius College, Cambridge: Awarded scholarships for my performance in my examinations.

2016 – RAEng Engineering Leaders Scholarship: Awarded a £5,000 scholarship for demonstrating strong leadership potential.