

Kabir Bedi

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EDUCATION

King's College

London, United Kingdom

BSc Physics

Expected 2025

With additional level 5 Introduction to Artificial Intelligence & level 6 Artificial Intelligence Decision Making and Planning modules

Dissertation Title: "Exploring Quantum Computing and Quantum Machine Learning for Financial Fraud Detection: A Comparative Study of Quantum Support Vector Machines and Classical Models"

WORK & LEADERSHIP EXPERIENCE

Full-Stack Rota System Developer

London, United Kingdom

Independent Project in Collaboration with King's Disability Department

01/25 – Present

- Began as a Disability Support Worker providing academic and accessibility support to disabled students at King's College London.
- Identified inefficiencies in shift allocation, which previously relied on emails, manual confirmations, and spreadsheets.
- Designed and developed a full-stack rota system using Microsoft Power Apps, SharePoint, Power Automate, and Office 365.
- Secured a funding grant from King's College London after successfully pitching the project as a solution to improve Disability Support Services.
- Automated shift creation, tracking, and communication, eliminating manual scheduling.
- Built a GDPR-compliant database to store shifts, support workers, and student details, ensuring real-time data syncing.
- Integrated automated notifications and Office 365 calendar synchronization for accepted shifts.
- Implemented an attendance confirmation feature, reducing errors in Talent Bank submissions and improving hour verification.
- Streamlined workflows, reduced administrative workload, and provided clear, auditable records.

Institute of Psychology, Psychiatry and Neurosciences

London, United Kingdom

Neuroscience Research Assistant/Disability Support Worker

11/23 – 11/24

- Provided disability support to a PhD student researching MicroFA scanning of the brain.
- Worked in an intellectually stimulating environment that deepened my understanding of Physics, Computer Science, and Biology, paving the way toward a career that integrates Artificial Intelligence, Quantum Physics, and healthcare.
- Regularly engaged with various faculties and departments at King's College London, gaining a varied and nuanced perspective on academia and industry.

DJ & AV Business

London, United Kingdom

Founded and Employed Three other Employees

01/24 – Present

- **Operational Oversight:** Managed a team of DJs across London, ensuring seamless coordination for a variety of events including corporate functions, formal events for large companies, and live classical performances at Imperial College London.
- **Event Diversity:** Provided professional sound services for charity events attended by thousands and secured contracts with major London universities for vibrant student nights.

- Time Management & Financial Independence: Successfully balanced work commitments with academic responsibilities by scheduling gigs that did not conflict with study hours, thereby supporting myself financially while pursuing my degree.
- Leveraging Leadership Reputation: Utilized the reputation built as President of the DJ Society to establish and grow a reputable and thriving business within the competitive London entertainment scene.

Centre for Urban Science and Progress (CUSP)

London, United Kingdom

Python Coder

05/23 – 08/23

- Tested the Vizent Python Library developed collaboratively by King's College London and CUSP London, which visualizes data entropy and complexity of bivariate data points and networks using shapes and colours.
- Developed comprehensive test cases and gained a deep understanding of the library's functions to rigorously assess its performance.
- Presented test cases in a clear format for professors and researchers, ensuring usability for future development.
- Contributed to projects involving the UK National Grid, Transport for London (TFL), and researchers in China working to bridge language gaps between provinces.
- Applied advanced knowledge in psychology, data conservation, and mathematics alongside high proficiency in Python.

KCL DJ Society

London, United Kingdom

President 23-24

09/23 – 09/24

- Led a vibrant community of over 200 members, promoting artistic expression and social connection through electronic music.
- Organized and executed high-quality events with meticulous planning, creative direction, and effective media management.
- Prioritized fundraising initiatives, successfully raising over £4,000 for multiple key charities.
- Leveraged strong leadership and communication skills to provide DJ tuition, technical support, and foster an inclusive, impactful environment both on campus and in the broader community.

King's College London Computer Science Department

London, United Kingdom

Curriculum Design + Puzzle Problem Creation + Graphics and Presentation

02/23 – 09/23

- I was tasked with contributing to the introduction of the Computer Science Course to the first year undergraduates. This opportunity was provided by the department to all students via application and interview processes as it was a paid opportunity.
- This involved puzzle creation, some testing theoretical logic and reasoning abilities and some requiring programming language solutions. Languages such as python, Java and C#.
- Due to my previous experience and learned proficiency with visual design, I was able to create all the necessary designs to do justice to the problems designed by the team I was a part of.

PIECE OF COLOUR – CREATIVE ECONOMY/NON- PROFIT START-UP

United Kingdom

Asana + Front end Web development + Creative Direction + Business Structural Development

01/23 – 04/23

- Involved with the development of:
 - Piece of Colour and It's retail and content/media output structure.
 - Developing a functional system for enabling the circular economy which allows creatives to get paid for their work and to benefit local communities and charities simultaneously.

NHS

Kent, United Kingdom

Primary Caregiver – Data Analytics

01/19 – 09/21

- I was one of the Primary Caregivers employed by the NHS to provide care for my aunt who suffers from learning disabilities and requires 24/7 care.
- Due to my aunt's learning disabilities, her behavioral patterns would fluctuate depending on the medication she took, in a cyclic pattern. As she suffers from mood swings that fluctuate over the course of weeks, I devised and coded an application that would both estimate and predict her temperament based on historical patterns of behavior. It was trained on historical data unique to her.
- The primary use of this application was for booking holidays in advance, and picking dates for events and for hospital appointments as her mood would sometimes not allow her to partake.

SKILLS, ACTIVITIES & INTERESTS

Languages: Native proficiency in English and conversational proficiency in Punjabi, Hindi and French

Technical Skills: Adobe Suite, Microsoft Office, Python, C#, SQL, HTML, React, Asana, Blender and Ableton

Activities: [DJing, Gym & Wellness, Climbing and Martial Arts (BJJ)]

Interests: Philosophy, Art and Theology