

# KABIR BEDI

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## EDUCATION

### King's College London, United Kingdom *Bachelor's, Physics*

September 2021 - May 2025

- Additional Computer Science Modules: Artificial Intelligence Decision Making and Planning - 66
- Dissertation: Quantum Machine Learning for Financial Fraud Detection - Final Grade: 77 (First Class)

## PROFESSIONAL EXPERIENCE

### Naked and Saucy Foods

Vancouver, BC, Canada

#### Growth & Creative Marketing Intern

October 2025 - December 2025

- I applied a scientific, data-driven approach to Naked & Saucy's marketing—diving deep into customer demographics, purchase patterns, and performance KPIs to shape content strategy for a national CPG brand sold in Costco, Walmart, Loblaw's, and major retailers across Canada
- In a two-month sprint at a fast-growing team of under 15 employees, I blended statistical insight with creative execution to produce UGC, refine brand identity, and build experiments that boosted engagement and informed future product launches.

### TD Bank

Vancouver, BC, Canada

#### Mobile Mortgage Specialist Assistant

September 2025 - November 2025

- Served as the technical backbone of the mortgage practice by completely streamlining the MMS's IT infrastructure and rigorously managing CRM data integrity to drive operational efficiency
- While engineering these optimized workflows, I leveraged deep real estate finance knowledge to provide high-touch, expert advisory services directly to clients.

### King's College

London, United Kingdom

#### Full-Stack Rota System Developer

January 2025 - October 2025

- Started as a Disability Support Worker providing academic and accessibility support to disabled students at KCL across departments.
- Identified inefficiencies in shift allocation and designed a full-stack rota system using Microsoft Power Apps, SharePoint.
- Secured a funding grant from King's College London after successfully pitching the project as a solution to improve Disability Support Services.
- Final result is a GDPR-compliant database to store shifts, Support Workers, and students, ensuring real-time data syncing, improving efficiency up to 50%.

### Centre for Urban Science and Progress (CUSP)

London, United Kingdom

#### Python Coder

May 2023 - August 2023

- Tested and validated the Vizent Python Library developed by King's College London and CUSP London, designed to visualise data entropy and complexity in bivariate datasets and networks through shape and colour mappings.
- Created over 100 comprehensive test cases, stress-tested core functions, and presented findings in a clear, reusable format for researchers—supporting real-world applications such as the UK National Grid, TFL, and international data communication projects.

### King's College

London, England, United Kingdom

#### KCL Computer Science Hackathon Founder

April 2023 - August 2023

- Co-designed the inaugural, department-run KCLPuzzled hackathon by developing puzzles grounded in core CS fundamentals—Markov chains, graph search, classical ciphers, and encryption-decryption logic—alongside CS students and my AI professors
- This sharpened my algorithmic thinking and technical problem-design skills while creating challenges that accurately tested computational reasoning.

### King's College

London, England, United Kingdom

#### Venue Sales Coordinator

April 2023 - June 2023

- Managed client enquiries and matched event requirements to appropriate KCL venues, overseeing bookings from initial contact through final confirmation.
- Coordinated with security, catering, and facilities teams to ensure smooth event delivery and fulfil all technical and logistical requirements.

### NHS

Kent, United Kingdom

#### Primary Caregiver – Data Analytics

January 2019 - September 2021

- 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.
- Undertook a rigorous personal project in data analytics, ML & Python to improve care, detailed below.

## PROJECTS & OUTSIDE EXPERIENCE

### Jane Street X Women In Physics

London, England, United Kingdom

#### Physics of DJing Workshop Host

February 2024 - February 2024

- I hosted an interactive workshop in collaboration with Jane Street + KCL Women in Physics where I taught attendees ranging from esteemed professors to STEM students of London the Physics behind DJing
- I explained Fourier Analysis, Fourier transforms and frequency equalisation in a way that all could understand and interact with.
- [Link to project](#)

### Audiovisual Business

London, England, United Kingdom

#### Founder

January 2023 - August 2023

- I ran an audiovisual services business providing DJ, sound, and lighting solutions for events, working with clients such as Yoto Play, Imperial CGCU, Imperial RCSU, KCLSU, and the School of Politics and Economics, among others
- The business generated around £10,000 ARR, which I used to help fund my full-time BSc Physics degree at King's College London.
- [Link to project](#)

### Data Analyst + Caregiver

Gravesend, England, United Kingdom

#### Caregiver + Data Analyst

August 2019 - September 2025

- I grew up as one of the primary caregivers for my aunt, who is autistic and has bipolar disorder. While balancing full-time care with my physics degree, I built a Python application using pandas for data processing and scikit-learn for modelling. I used a supervised learning approach, specifically a random forest classifier, to analyse her behavioural patterns, identify cyclic mood variations, and forecast short-term temperament trends. This helped us plan hospital visits, holidays, and daily routines in a way that supported her stability.

### Quantum Machine Learning for Financial Fraud Detection

London, England, United Kingdom

#### Dissertation

January 2025 - May 2025

- Benchmarked Quantum SVMs against SVM, CatBoost, XGBoost, and LightGBM on the PCA-transformed Kaggle Credit Card Fraud dataset, running QSVM circuits on the IBM Kyiv quantum backend and Qiskit Aer to evaluate performance and quantum advantage
- Final Grade: 77.

### KCL DJ Society

London, England, United Kingdom

#### President

September 2022 - May 2024

- Elected President of the King's College London DJ Society for my leadership and community focus, I organised and DJ'd largescale events of over 1,000 people while managing logistics, creative direction, and fostering an inclusive, vibrant culture around music and connection.
- Led the society to its most successful year—raising over £3000 for charity, hosting renowned DJs, resolving internal disputes, and expanding membership to its largest and most engaged level in the society's history.
- [Link to project](#)

## SKILLS

**Programming Skills:** Python, C#, HTML/CSS, Git, MATLAB, React.js, JavaScript, REST APIs, Power Automate, MCP, Machine Learning, Qiskit

**Data Analysis Skills:** SQL, SharePoint, Tableau, Power BI, Airtable, Excel/Numbers/Sheets, Notion

**Extra Curricular:** Blender, Adobe Suite, Project Management, Event Management, Public Speaking

**Languages:** French, Hindi, Punjabi