

## EDUCATION

### **King's College London, University of London**

London, United Kingdom

*BSc. (Hons.) in Computer Science with Artificial Intelligence*

2022 - 2025

Year 1: 77 (First Class)

Year 2: 70 (First Class)

Overall: Expected First Class

## WORK AND RESEARCH EXPERIENCE

### **The KUSP: Under-represented creative talent management startup**

London, United Kingdom

#### **Frontend Intern**

July 2024 – Present

- Engineering dynamic and responsive user interfaces using React, JavaScript, and Tailwind CSS, ensuring optimal user experiences and high performance.
- Collaborating in cross-functional teams, adhering to best practices in version control using Git, and implementing Agile methodologies with Jira to streamline project workflows.
- Communicating effectively with team members and stakeholders, facilitating clear and concise information exchange, resulting in a 25% improvement in project delivery timelines.

### **AquaZoo Consulting: Zoo and aquarium consultancy startup**

London, United Kingdom

#### **Machine Learning and Software Engineering Intern**

July 2024 - Present

- Developing frontend for a mobile application using React Native, JavaScript and Tailwind CSS to track user movement within zoo premises, enabling data-driven insights and consultations for zoos.
- Improving a robust in-app image classification software utilizing TensorFlow, achieving real-time classification of animal species with over 75% accuracy.
- Collaborating effectively in a diverse team environment, leveraging version control tools and Agile approach to ensure seamless integration and maintain code integrity

### **Indian Institute of Technology (IIT), Patna**

Bihar, India

#### **Research Fellow Under Dr Chandranath Adak**

July 2024 - Present

- Identified a novel research problem in the field of game theory and multi-agent reinforcement learning, presenting it to my supervisor for further exploration.
- Conducting an in-depth review of relevant research literature, theorizing a potential solution to the identified problem.
- Developing the world's first complete and publicly available program for the game, on which reinforcement learning will be conducted, using Python and leveraging libraries such as NumPy, Matplotlib, and Pygame.
- Working towards the publication of a research paper in a reputed journal, aiming to contribute original findings to the academic community.

### **King's College London, University of London**

London, United Kingdom

#### **Research Fellow Under Dr Maher Salem**

June 2023 – Aug 2023

- Conducted rigorous research that led to a research paper on the topic “Using Cutting Edge Machine Learning Techniques to Protect Senior Citizens from Cybercrime” under an industry-leading supervisor
- Successfully balanced the demands of a fast-paced research environment, meeting deadlines, and delivering high quality work
- Honoured by the King’s Research Experience Award for showcasing original academic poster and essay highlighting my contributions and reiterating the skills I acquired to successfully complete the fellowship

## PROJECTS AND ACHIEVEMENTS

### **GitHub**

#### **Algorithmic Image Manipulation**

June 2024 - Present

- Developed the world's first set of open-source image-manipulation algorithms digitally reviving almost extinct post-modern surreal Czech art using Python libraries like Pillow, NumPy and Flask
- Working on an interactive frontend and UI for final deployment online to improve accessibility by users

## **GitHub**

### **PEELS: Online Journaling Website**

Jan 2024 – March 2024

- Developed an online journaling website using industry-standard technology like Express, JavaScript, React.js, Tailwind CSS, and Firebase as part of a team of nine.
- Fully developed, tested, and deployed the application online for public use.

### **HackLondon Hackathon 2024: Pan-London hackathon with more than 200 participants**

#### **NotForgot: Mindfulness memory assistance app**

February 2024

- Developed from scratch within 48 hours using Python and Django in a group of three.
- Fully tested, documented, and published the project as open-source online for public use.

### **All India Senior School Certificate Examination 2022: Indian High School Final Examinations**

National Rank #1 in Chemistry (Perfect Score) out of more than 1 million examinees

April 2022

### **April Codechef Starters 2021: Global programming contest**

Global Rank #206 out of 8000+ contestants

April 2021

## **POSITIONS OF RESPONSIBILITY**

### **KCL Tech Society - Academy**

London, United Kingdom

#### **Workshop Organiser**

June 2024 – Present

- Organizing and conducted 4-5 hour long workshops with 30+ attendees weekly, teaching them the basics of competitive programming and advancing them to an intermediate level.
- Developing and delivering presentations, guiding participants through live problem-solving sessions, and assisting with errors, requiring proficiency in multiple programming languages.

### **Indian National Students Association (KCL)**

London, United Kingdom

#### **Vice President**

Oct 2023 – May 2024

- Co-founded and established INSA at King's College London, contributing to the foundational structure and mission of the organization.
- Collaborated with the Indian Embassy in the UK on various events, strengthening ties and enhancing the visibility and impact of INSA.

### **KCL Hindu Society (National Hindu Students Forum)**

London, United Kingdom

#### **Committee Member**

July 2023 – May 2024

- Led multiple events with attendee numbers ranging from 20 to 200, ensuring effective planning, coordination, and engagement.
- Spearheaded social media campaigns that highlighted the philosophical aspects of Hinduism, fostering awareness and appreciation.
- Advocated against Hinduphobia on campus, raising awareness and promoting a safer environment for Hindu students at KCL.

## **INTERESTS AND HOBBIES**

- **Digital and Traditional Art (17+ Years):** Commissioned digital artworks since 2021
- **Chess:** Among the top 500 strongest Atomic Chess players in the world in 2022

## **LANGUAGES**

- **Hindi** (Native), **English** (Bilingual), **Maithili** (Professional), **Bhojpuri** (Professional), **Sanskrit** (Professional), **Bengali** (Professional)