Ujjwal Krishn
Aerospace Engineering
Indian Institute of Technology Bombay

krishnujjwalkumar@gmail.com
B.Tech
+91 8104323175

Examination	University	Year	CPI / %
Graduation	IIT Bombay	2024	

PROFESSIONAL EXPERIENCE

Software Development Intern | Chennai Super Kings | Winners of IPL 2023   *[Mar'23 - Apr'23]*
*Awarded **Letter of Recommendation** from the **CEO** for exemplary performance and swift learning ability*

Project	• Developed an immersive, interactive and gamified **3D** experience for the **23 Mn+** fans of the team • Created a Kahoot like **Quiz game** with **leaderboard** to replace the old non-timed MCQ version
Approach	• Used **ThreeJs** to integrate and animate **100+** 3D Blender models to enable novel user interactions • Utilised **Angular** & **Django** frameworks to integrate **20+ REST API** endpoints & **10+** web pages
Impact	• Increased user registrations on the website by **20%** and received **10 Mn+** hits during the IPL season • Elevated website engagement by **50%** with enhanced UI/UX, garnering **2 Mn+** quiz submissions

Growth, Research & Development Intern | Mudrex | Crypto investment platform   *[May'23 - Jul'23]*
• Ideated on **SatoshiGPT,** a chatbot that answers **crypto** related questions and provides investment advice to users
• Scraped **1000+** Crypto blogs and newsletters to prepare a quality dataset using **Pyppeteer** and **Pandas** in Python
• Used a text search model to find **top 3** documents relevant to the user query & feed them as context to **GPT-3.5**

KEY PROJECTS

FRIDAY | Hospitality Management Portal | Mood Indigo   *[Dec'22]*
• Created a **room allocation portal** with registration form using Django and Angular frameworks with REST API
• Used **WebSockets** through Django **Channels** to develop live hostel maps and prevent duplicate room allocation
• Reduced waiting time by **3** hours for **5k+** visitors, **1.5k+** rooms by replacing the old multiple excel sheets system

Sudoku Solver using Image Detection | Self Project   *[Jul'22]*
• Prototyped a system that solves a Sudoku using **backtracking** algorithm within **10 seconds** through image input
• Trained a **CNN** neural network on **MNIST** database for digit recognition and used **OpenCV** for image processing

POSITIONS OF RESPONSIBILITY

Web & Creatives Head | Core Group Member | 52nd Mood Indigo   *[Apr' 22 - Mar' 23]*
*Asia's Largest College Cultural Festival | Net Worth: INR **95 Mn+** | Footfall: **146,000+** | Events: **240+** | Colleges: **5000+***

Leadership	• Spearheaded a **2** tier team of **50+** students to enhance visitor experience through tech innovation • Created and maintained all tech services comprising **40+** web pages & **5+** portals with **3 Mn+** hits
Impact Projects	• Saved upto **INR 0.16 Mn+** in printing cost establishing a foolproof **Online Concert Pass** system • Increased **80% Y-o-Y** registrations doubling college participation via improved & themed UI/UX • Developed Clubs and Threads in the College Connect program to boost user interaction by **50%** • Used **Celery** to create a **Mass Mailing** system to promote fest related events & activities with ease • Implemented **JWT Authentication** for API security, mitigating risks and enhancing protection • Prototyped Judge's Portal, slashing process errors by **90%** and conserving over **200** work hours

TECHNICAL SKILLS

• **Programming languages:** C++, Python, SQL, MATLAB, HTML, CSS, Javascript, Typescript, JQuery, LaTeX
• **Software and Frameworks:** Django, Angular, MySQL, BootStrap, Git, AWS, Linux, Excel, Redis, Celery

SCHOLASTIC & EXTRACURRICULARS

Academic	• Awarded Branch Change (top **8.5%)** in the first year on the basis of academic performance *['21]* • Successfully completed the **Data Structures and Algorithms** course from GeeksForGeeks *['23]*
Social	• Collected **200 kg+** of waste at Mahim beach clean-up event endorsed by **Sanya Malhotra** *['22]*
Culturals	• Handled **4k+** footfall event for "**Brahmastra**" movie with **Alia Bhatt** and **Ranbir Kapoor** *['22]* • Completed a year long course in **Flute** and studied intermediate music theory under **NSO** *['21]*