

# Prakhar Bhargava

Email ID: [prakhar20394@iiitd.ac.in](mailto:prakhar20394@iiitd.ac.in) | Contact No: (+91) 9899326396

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## EDUCATION

### Indraprastha Institute of Information Technology, Delhi — Bachelor in Technology - Computer Science & Design

JUNE 2020 - JULY 2024 | Current CGPA: 8.32 [6th Semester]

- **Design Courses:** Human-Computer Interaction, Drawing & Visualisation, Visual Design, Prototyping interactive systems, Designing Interactive Systems, Animation & Graphics, Interactive Systems, Cognition in Design, Digital Audio Video Production, Inclusive Design
- **Technical Courses:** Data structures & algorithms, Advanced Programming, Computer Organisation, Operating System, Analysis & Design of Algorithms, Introduction to Database management Systems, Computer Network, Data Mining, Usable Security

### Amity International School, East Delhi — Science with Math

MAR 2006 - JUNE 2020 | Percentage 12th: 94.2% | 10th: 92%

- **Courses:** Physics, Chemistry, Mathematics, English, Economics
- **Headboy**, Student Council 2019-20, **Team Leader**, Youth Power, a social entrepreneurship initiative. **Founder**, Student Alumni Connect, Participant and winner at multiple inter-school events and competitions. **Represented India** at Odyssey of the Mind, World Finals.

## EXPERIENCE

### Creative Interface Lab, IIIT Delhi — Undergraduate Student Researcher

JANUARY 2023 - PRESENT | Guide: Dr Anmol Srivastava | **Augmented Reality, Unity**

- Engaged in **research** and **development** for the "**XR and Heritage**" project, focused on leveraging virtual and augmented reality technology to construct **interactive storytelling** experiences at **historical sites in Delhi**.
- Implementing visual and interactive elements using **Unity** to create an Augmented Reality experience for the project.
- Published paper in A Grade conference [ISS'23 at Pittsburgh USA]

### Wadhwani AI, Delhi — UX/UI Design Intern

MAY 2023 - JULY 2023 | **Field Study, Secondary Research, UX/UI Design**

- Collaborated with the **Ministry of Health and Family Welfare** and **AIIMS Delhi** to design an AI-based **Diabetic Retinopathy screening solution**, to go into pilot in August 2023
- Conducted comprehensive **primary and secondary research** at AIIMS Delhi and Vision Centres to inform the design of Ophthalmology and Tele-Diagnostics solutions (E-Health).
- Contributed to developing solutions in diverse domains, including **Agriculture** (KKMS), **Tuberculosis** (TB Triage), and the **G20 summit**.

### PAIZ Project, University of Oulu, Finland & Living Lab, IIIT-Delhi — Undergraduate Student Researcher

AUGUST 2022 - PRESENT | **User Research, Robotics**

- Utilizing the **Nao V6** Robot to conduct user research on **Child-Robot interactions** in unsupervised settings.
- Currently involved in writing a **research paper** that explores the interaction between children and robots, specifically in the Indian context.

### Government e-Marketplace, Delhi — UX/UI Design Intern

MAY 2022 - JULY 2022 | **Design System, UX/UI Design, Stakeholder Management**

- Enhanced the **Registration & Bid participation** module by resolving **200+ user-reported issues**, resulting in a notable reduction in user fall-off rate and registration time.
- **Established a Design System** for the platform, ensuring uniformity and standardization in the user interface.
- Collaborated with **50+ stakeholders** from **GeM, Intellect Design, and Infibeam Avenues**, fostering consistent communication and feedback during the design process.

## SKILLS

**User Experience Research**

**User Interface** design

Wireframe & **Prototyping**

Creative **Storytelling**

Leadership

Team & Stakeholder Management

Strategy

## TOOLS

**Figma**

**Adobe Suite** (Photoshop, Illustrator, Indesign, XD, Premiere Pro)

**Figma, Miro**

Fusion360, Blender

Eagle CAD

GitHub

Android Studio

Arduino

## PROGRAMMING LANGUAGES

**HTML-CSS**

**Javascript**

Python

Java

C, C++, C#

Flutter Dart

MySQL

## POSITIONS OF RESPONSIBILITY

### 1 Pixel Design Conf'23, IIIT Delhi — *Convenor & Co-Founder*

AUGUST 2022 - JANUARY 2023 | **Management, Leadership**

- Achieved a reach of **25,000+** people through effective social media and marketing efforts.
- Invited **15+ speakers** from **leading design-focused organizations**. Attracted participation from over **170+** individuals and delegations from 20+ universities and colleges
- Organized Design360 Designathon with more than 220+ registration.

### Business Blasters, Delhi Government, Delhi — *Business Coach*

DECEMBER 2021 - JULY 2022 | **Entrepreneurship**

- Provided **mentorship** to two teams, offering guidance on entrepreneurial aspects, including creating compelling brand narratives and incorporating social missions into their businesses leading one of the team to **Top 100**

### Volunteers Covihelp, India— Co-founder, Social Media Head

APRIL 2021 - SEPTEMBER 2021 | **Social work, Volunteering, Management**

- Assisted **1700+ individuals** with Covid-related resources during the second wave of COVID-19.
- Oversaw a team of **300+ volunteers** from different parts of the country and abroad.
- Received **coverage in prominent news** outlets, including Hindustan Times, New Indian Express, and Republic.
- Raised over **₹1.31 Lac** for the cancer treatment of a 12-year-old girl.

## PROJECTS

### Google Drive Me Crazy — *User Experience | Web-app Development*

Guide: Dr Grace Eden | Team size: 5 | [Presentation](#)

- Conducted **in-depth user research** to identify and address issues with navigation, tiny UI, lack of space analyser, and visualiser in the Google Drive interface.
- Achieved a **102% increase in satisfaction levels** in the System Usability Scale (SUS) and a **35.5% reduction in time utilization** for basic Google Drive-based tasks.

### AR Playground — *Experience Design | Game Design*

Team size: 3 | [Video](#) | [Github](#)

- Conceptualized and developed an **augmented reality**-based learning app to aid cognitive development in children aged 3-5.
- Designed and developed various interactive games within the app, such as building blocks, alphabet riddles, and color sorting, to actively engage children and facilitate learning through play.
- Utilized technologies such as **C#, Unity3D, and Unity XR Foundation**.

### Sehyog — *User Research | UX-UI Design | Brand Identity | Storytelling*

Guide: Dr Indrani De Parker | Team size: 6 | [Presentation](#)

- Collaborated with a team of 6 on Sehyog, a **social networking platform** to empower underprivileged communities.
- Took the lead in **designing a compelling brand identity for Sehyog**, including logos, merchandise, and other visual elements.
- Conceptualised, materialized, and **directed a pitch video** highlighting the platform's features, benefits, and potential impact.
- Leveraged skills in user research, UX-UI design, brand identity, and storytelling to develop a cohesive and engaging platform.

### Sensori-Motor Pathways — *Space Design*

Guide: Dr Indrani De Parker | Team size: 5 | [Video](#)

- Designed and developed sensorimotor pathways that **promote playful and engaging activities** to enhance children's cognitive and motor skills.
- Conducted **in-depth child development research** to inform the design and installation of the pathways at Jamghat NGO and IIIT Delhi, initiating an initial response.
- Incorporated various materials and colors to engage children's senses, stimulate their imagination, and foster exploration.
- The designed pathways encourage active play and learning, receiving positive feedback from both children and educators during the pilot program.

### Omni-sense — *Gamified Presentation*

Guide: Dr Indrani De Parker | Team size: 5 | [Play Game](#)

- Created "Omni-sense," an **innovative gamified presentation** platform utilizing tools like **Unity3D** to enhance the communication of research findings in a captivating manner.
- Enabled users to explore research milestones at their preferred pace, fostering **deeper engagement, comprehension, and knowledge retention**.

### Beyond the Books — *UX-UI Design | Storytelling*

Guide: Dr Richa Gupta | Team size: 2 | [Video](#)

- Developed the **user interface for a storytelling platform** that facilitates educators in teaching newly introduced topics and subjects outlined in the National Education Policy (NEP).

- **Produced a persuasive pitch video** to showcase the platform's user experience and potential to transform India's education delivery system. Product pitched to the **Ministry of Education** and other stakeholders, emphasizing the platform's impact on revolutionizing education.

## PUBLICATION

- **Safar: Heuristics for Augmented Reality Integration in Cultural Heritage**, Interactive Surfaces and Spaces 2023, Pittsburgh, USA
- **Design of an AR Experience for Heritage Tourism in India**, India HCI 2023, Dehradun, India [Under Publication]

## HONORS & AWARDS

- Earned **2nd place & Cash prize of Rs. 25,000** in **Enactus India Hackathon** for project AR Playground - An AR-based game for the sensorimotor development of children. (2022)
- Won **2nd award & prizes worth Rs. 1,75,000** in **Redbricks Hackathon** organized by **Ashoka University** & Mphasis for project 'Health-ucate' - A gamified platform to teach children about health matters. (2022)
- **Reached top 5 in Design Day's Hackathon**, organized by **Salesforce India**, with over 200+ teams' participation - Presented a relationship design for Bamboo's Courtyard - a service to boost the bamboo industry. (2022)