

# Arka Majhi

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## Education

<b>Centre for Technology Alternatives for Rural Areas</b> <b>Indian Institute of Technology(IIT) Bombay, India</b> <b>Doctoral Research (PhD)</b>	2018 - Present
<b>Industrial Design Centre (IDC) ,</b> <b>Indian Institute of Technology(IIT) Bombay, India</b> <b>Masters in Design (M.Des.)   Interaction Design (HCI)</b>	2016 - 2018
<b>School of Planning and Architecture, New Delhi</b> <b>Bachelor of Architecture (B.Arch)</b> <b>Registered under Council of Architecture, India</b>	2011 - 2016

## Experience

<b>Web Designer and Developer - IIT Bombay and UNICEF (and supporting partners)</b> <a href="https://poshancovid19.in">https://poshancovid19.in</a> <ul style="list-style-type: none"><li>Designing and developing the website from scratch</li><li>Update information and circulars from different organizations (IFPRI, WFP, UN India) and Health Ministry, India (MoHFW)</li><li>Data Visualization of the health data from Ministry of Health and Family Welfare, Govt of India for the last 2 years (HMIS datasets)</li></ul>	April 2020 - Present
<b>Data Visualization of COVID-19 data of India - IIT Bombay and UNICEF</b> <a href="https://arkadesignstudio.in/dataviz/">https://arkadesignstudio.in/dataviz/</a> <ul style="list-style-type: none"><li>Designing and developing interactive data-visualizations &amp; the website from scratch</li></ul>	April 2020 - July 2020
<b>Certificate Courses by Cornell University and UNICEF</b> <ul style="list-style-type: none"><li>Master certificate in <b>Programming for Infant and Young Child Feeding Course</b> through Agora platform provided by Cornell University and UNICEF (14 hrs credit course) Topics covered: Malnutrition, Breastfeeding, Interventions for improving BF, Complementary Feeding, IYCF Programming, IYCF during emergencies, Case studies from 3 countries &amp; Monitoring to strengthen IYCF practices</li></ul>	3 July 2020
<b>Course Coordinator - Data Science for Rural Development</b> <ul style="list-style-type: none"><li>Designed the structure and formulated the syllabus for the course which is now a part of the Technology and Development curriculum.</li><li>Initiated the idea and convinced the Head of the Department for its need.</li></ul>	August 2018
<b>Doctoral Research Fellow, IIT Bombay</b> <ul style="list-style-type: none"><li>The research involved problem identification, ideation, and strategy design, execution of a pilot for imparting knowledge and skills through capacity building of the frontline workers.</li><li>Analysed child wise data from the 4th round of NFHS (National Family Health Survey) to see possible correlations with child malnutrition using STATA, R and Excel.</li></ul>	July 2018 - Present

**Research Intern (Product Development),  
ETV Bharat - Digital News app (in 23 Indian Languages)**

January  
2018-  
June 2018

- Build UX flows, layouts and UX guidelines for the upcoming news app

**Architecture Internship - Spacematters**

2015 - 2016

- Designing and Drafting sports complex of Ashoka University
- Designing and Drafting temple complex in Barmer, Rajasthan
- Model making of a hilly site in Himachal Pradesh from surveyed GIS maps
- Make Detailed Project Report for construction projects
- Architectural Photography

## Awards and Honors

**Prime Minister Fellowship for Doctoral Research (UNICEF as Industry Partner)**

August 2020-  
July 2024

- Awarded an unique and prestigious scholarship for my doctoral research

**Ministry of Human Development and Resources Scholarship**

July 2016-  
June 2018

- Awarded a scholarship for pursuing postgraduate studies.

**Ministry of Social Justice and Empowerment Scholarship**

July 2011 -  
June 2016

- Awarded a scholarship for pursuing undergraduate studies.

## Academic Projects

**Ph.D. research project - Exploring the Learning Pedagogies for Refresher Training for frontline workers in India**

2018- Present

**M.Des. Thesis - Training frontline healthcare Workers through Android games**

- Assessment and Refresher Training for Anganwadi Workers (AWWs) or Frontline Workers for Mother and Child health care in India Designed and successfully piloted, an innovative refresher training and assessment through Android app, for the frontline health workers

2017- 2018

**M.Des. Project - Novel interactions for navigating in VR sports**

- Enhancing immersion in Virtual Reality sports through novel physical interactions and haptic feedbacks

2016- 2017

**B.Arch. Thesis - Green Offices of the future - for Indian cities**

- Build energy-efficient and eco-friendly office buildings for Indian cities

2016

**B.Arch. Dissertation - Bachaye toh kitna?**

- To what extent should we go to save our heritages (with Delhi as a case).

2015

## Conference Publications

**Asian CHI Symposium 2021(CHI 2021)**

- Best paper (long) and best presentation award  
(Please consider it as my writing sample)
- Link to the paper <https://doi.org/10.1145/3429360.3468186>

2021

## Softwares proficient in

Data Visualization and GIS	D3, Leaflet, Processing, Charts.js, QGIS, ArcGIS, Flourish, Datawrapper, Tableau, Power BI, Google Data Studio, Python Dash, R Shiny, and Plotly
Data Analysis	STATA, Python, R and Excel
Database	MySQL, MongoDB, Google Firebase and Google Sheets
3D Modelling	Sketchup, Blender, 3D MAX, Maya
Game Engines	Unity3D, Unreal Engine
UI/UX	Adobe XD, Figma, Axure, Photoshop, Illustrator

## Conference - Student Volunteer

- Member of IIT Bombay ACM SIGCHI Student Chapter (since November 2019)
- NordiCHI 2020 (October 2020)
- Interact 2017 - Part of the organizing team at IIT Bombay
- India HCI 2016 - Part of the organizing team at IIT Bombay

## Public Exhibitions

- Put up public exhibition (3 years in a row) in TechConnect at TechFest demonstrating my research projects of masters and doctoral research
- Visitors come to the stall, play and experience the designed games on sports and health in virtual environments and apps

Techconnect, TechFest  
2017, 18 and 19, at IIT Bombay

## Personal Interest

Playing and watching football | Travelling and exploring rural and tribal India | Watching biographical and war/action movies | Swimming | Mentoring students | Teaching coding to kids | Building mud and bamboo houses for the poor | Organic Farming

Running my own Youtube Channel about healthcare (Few links to the youtube videos)

- [26 May, 2020 | COVID-19 Updates of India](#)
- [Comprehensive National Nutrition Survey \(CNNS\) | Reporting and Analysis \(Part 1\)](#)
- [Comprehensive National Nutrition Survey \(CNNS\) | Reporting and Analysis \(Part 2\)](#)
- [Human Development Report 2019 | Explained](#)
- [Global Nutrition Report 2020 | Reporting and Analysis](#)