

# Karan Bhatia

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## EDUCATION

**Dhirubhai Ambani Institute of Information & Communication Technology** Gandhinagar, Gujarat  
*Bachelor of Technology (Hons.) in ICT, Minor in Computational Science* Aug. 2018 – May 2022  
CPI – 7.83/10 Semester 7

## EXPERIENCE

**Searce Inc.** Remote  
*Software Engineer Intern* Jan 2022 – Present

**Dhirubhai Ambani Institute of Information & Communication Technology** Remote  
*Research Intern* May 2021 – Oct. 2021

- Worked on the problem of 'Detection of AI synthesized Hindi speech' in the domain of speech spoofing.
- Developed a synthetic and human Hindi speech dataset consisting of 13000 speech samples.
- Developed novel features that gave an accuracy of 99% with machine learning classifiers.
- Trained deep learning models that work with 99.9% accuracy on mel spectrograms images.

**Samsung Research Institute** Remote  
*Research Intern* Aug. 2020 – Feb. 2021

- Worked on the problem of children's speech data augmentation for improving the efficiency of automatic speech recognition systems.
- Worked with multiple generative deep learning models for artificial speech synthesis.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, SQL (Postgres), JavaScript, HTML/CSS, MATLAB

**Tools and Technologies:** React, Svelte, Node.js, MongoDB, TensorFlow, Git, Postman, LaTeX

**Technical Electives:** Machine Learning, Data Analysis and Visualization, Internet of Things, Database Management System

## PROJECTS

**Workflow** 📄 | *React, Material UI, Bootstrap, Node, PostgreSQL, MongoDB* Jan. 2021 – Apr. 2021

- A workflow management system built as a part of IT314 Software Engineering course project at DA-IICT.
- Developed a full-stack web application using ExpressJS serving a REST API with React at the frontend.

**Prodigy** 📄 | *React, Quilljs, Quill cursor, Jitsi, Socket.io, Node, MongoDB* Nov. 2020

- A smart collaborative doc editor with video calling functionality built during 2 days of Hackout 2020, a nationwide hackathon hosted by Headout.

## ACCOMPLISHMENTS

- Member of one of the top 9 finalist teams out of 100 other teams from around the nation in 'Hackout 2020' hackathon organized by Headout. Finals live stream 📺.
- Awarded with a certificate of merit and scholarship for being in the top 1% of all students who undertook 10th GSEB Board examinations in 2016.
- Awarded with a certificate of merit for being the District Topper in the National Science Day Screening Test conducted by Physical Research Laboratory (PRL), Ahmedabad.