



**Laxman Desai**  
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**Indian Institute of Technology Bombay**

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**B.Tech.**  
**Gender: Male**  
**DOB: 02-05-2001**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	8.18

## ACHIEVEMENTS

- Pursuing a **Minor in Artificial Intelligence & Data Science** at IIT Bombay (CPI 10/10) (2021 - Present)
- Ranked **1048<sup>th</sup>** amongst **15k+** participants in Google Kickstart Sep. '20 and rated **4★** at CodeChef (2020)
- Secured **AIR 1448** in JEE Advanced and **AIR 1063** in AIIMS entrance test amongst **15lakh** candidates (2019)
- Achieved **2nd** rank in GCET among **20k+** candidates and a two time State Talent Search Exam scholar (2019)

## EXPERIENCE

**Frontend Developer Intern** | *Board Infinity* (Jul. 2021 - Present)

- Working in an agile team to provide each new customer a personalized onboarding experience
- Building a **Next.js** and **Typescript** web page that can dynamically load forms using a **JSON Schema**

**Software Developer Intern** | *Pay1* (May. 2021 - Jul. 2021)

- Built a Python **Flask** webserver with **Redis** cache that automated the Aadhaar eKYC verification, reduced the operating costs by **50%** and provided a seamless onboarding experience for all the new customers
- Utilized **Selenium** WebDriver to interact with the various portals & tested the RESTful API using **Postman**
- Extracted the features using a convolution-based algorithm in **NumPy** and trained a CNN **PyTorch** model to make predictions, achieving an average accuracy of **92%** on the 5 different text CAPTCHA datasets analyzed

## POSITION OF RESPONSIBILITY

**UI Developer Lead** | *Developers Community, IIT Bombay* (Jun. 2021 – Present)

- Mentored the junior developers in the ideation and development of various institute-wide web projects
- Contributed to the development of Crededit, a course related opinions and Q&As website

**Design Secretary** | *Chemical Engineering Association, IIT Bombay* (Apr. 2020 – Apr. 2021)

- Crafted posters and curated content for promoting **10+** departmental events, totaling a 200+ attendance
- Designed Chemical Gazette, the annual magazine alongside the Freshmen Newsletter & the department hoodie

## PROJECTS

**ResoBin** | Seasons of Code '21, IIT Bombay | *ReactJS, Redux, Python, Django* (Mar. 2021 - Present)

- Developed a fully responsive website for students to share the course material, lecture notes, and quiz papers
- Designed an intuitive and elegant frontend interface using **Figma** and built it using **React** and **Redux**
- Created pagination alongside a debounced async search that provided a pleasant course browsing experience

**NIFTY 50 Stock Prediction** | Course Project | *Python, TensorFlow, Pandas* (Feb. 2021 - Apr. 2021)

- Analysed the prediction capabilities of time series forecasting models on the daily opening price of stocks
- Utilised a sliding window approach to predict the outcome of the 15<sup>th</sup> day by training on the previous 14 days
- Studied statmodels such as **ARIMA** & **TensorFlow RNN** models such as stacked & bidirectional **LSTMs**

**Optimize Heating Indoors** | Course Project | *Python, SymPy, NumPy, Matplotlib* (Feb. 2021 – Apr. 2021)

- Studied & analysed methods to reduce energy consumption in large buildings situated in hot & dry places
- Implemented a solution comprising of a thin fluid layer that causes evaporation resulting in a 5% heat drop
- Solved resulting PDEs in Python with **NumPy** & **SymPy** and visualised the resulting data using **Matplotlib**

## TECHNICAL SKILLS

**Languages:** C++17, Python, JavaScript/TypeScript, HTML, CSS/SASS, TeX, Java, Matlab, Powershell, Bash

**Development:** ReactJS, Redux, Next.js, Django, Flask, Selenium, Redis, Git, Postman, VSCode, PostgreSQL

**Machine Learning:** Torch, OpenCV, TensorFlow, Keras, Jupyter, Pandas, NumPy, SKLearn, SciPy, Matplotlib

## EXTRACURRICULAR

- Produced an EDM song and released it on Spotify as a part of Institute Cultural Summer Project (Aug. 2020)
- Bagged **3<sup>rd</sup>** prize for directing & editing a comedy film in Freshiezza, the freshmen festival (Sep. 2019)
- Professionally trained in Table Tennis for **80+** hours through the National Sports Organization (2019 - 2020)