


# E Abhishek

☎ 7824027584    LinkedIn   ✉ eabhishek001@gmail.com

## EDUCATION

**Indian Institute of Technology Bombay**  
*B.Tech in Electrical Engineering with Honours*

2019-23  
CPI: 9.01

## KEY PROJECTS

### Modernising Land Records

(Jul '22 - Jun '23)

*In collaboration with Government of Maharashtra & Google Research | Guide: Prof. Milind Sohoni*

- Developed algorithms using **Python-PostgreSQL** to align ownership nodes with Google Research's segmented satellite images, allowing for adjustments in statistical parameters within predefined limits
- Conducted spatial analysis in **QGIS** to produce precise ownership boundaries, achieving **70%** accuracy rate
- Engaged with on-site personnel and conducted **field visits** to validate the outcomes

### Chatbot | Seasons of Code (SOC), IIT Bombay

(Apr '20 - Jun '20)

- Investigated various practices used to select a Natural Language Processing algorithm suitable for Chatbot
- Programmed state-of-the-art **Seq2Seq** NLP algorithm and trained it on multiple chat data sets from GitHub
- Developed an Android application and implemented **on-device machine learning** to deploy the model

### Emotion Classifier | Institute Technical Summer Project (ITSP), IIT Bombay

(May '20 - Jul '20)

- Implemented a 7-label **Convolution neural net** model using Keras framework, achieving **67%** accuracy
- Developed **Android application** using Kotlin for integrating the model

### Ultrasonic Sensor Design

(Spring '22)

*Guide: Prof. Joseph John, Dept. of Electrical Engineering*

- Implemented ultrasonic **transmitter** using two **astable** and one **monostable** multivibrator
- Designed ultrasonic **receiver** using non-inverting amplifier OpAmps and a **comparator** and measured the distance of the object by analysing the high time of the comparator using Arduino UNO

## PROFESSIONAL EXPERIENCE

### Verification Engineer | DVT | Enphase Energy

(Jul '23 - Present)

- Developed automation scripts within the **Robot framework**, specializing in firmware testing
- Designed Python and Bash scripts to facilitate instrument communication by leveraging the **PyVISA** library
- Leveraged **Jenkins** for test automation, developing and executing test cases to ensure product quality and reliability

### Software Development Intern | Warner Bros. Discovery

(May '22 - Jul '22)

- Utilised **branch.io** SDK to enable redirection from web to native apps and track user journey for **15** OTTs
- Validated **React** components under an exhaustive list of real-time scenarios using the **Cypress** framework
- Implemented **automation scripts** in bash to validate migration of legacy sites

## SCHOLASTIC ACHIEVEMENTS

- Secured **AIR 933** in JEE Advanced 2019 | **AIR 450** in JEE Mains 2019 among 1 million candidates ('19)
- Recipient of Kishore Vaigyanik Protsahan Yojana (KVPY) Scholarship with an **All India Rank 132** ('17)
- Recipient of National Talent Search Examination (**NTSE**) scholarship by NCERT, Govt. of India ('17)
- Amongst **top 30** in Tamilnadu to qualify Regional Mathematical Olympiad (RMO) ('16)

## SKILLS AND COURSES

- **Skills:** C++, Python, PostgreSQL, FastAPI, TypeScript, React, Cypress, Robot Framework
- **Courses:** Data Structures and Algorithms, Design and Analysis of Algorithms

## KEY ROLES

### Chief Editor at BackgroundHum | Electrical Engineering Department Newsletter

(May '22 - Present)

- **Leading** a team of **8** students in writing and designing articles for newsletters in the year 2022-23
- **Interviewed** professors about cutting edge research happening in the department on EV technology

### Teaching Assistant | Differential Equations MA108 | Prof U. K. Anandavardhanan

(May '21 - Jun '21)

- **Mentored** a batch of 40 students and helped them with concepts for a better understanding of the course
- Prepared solutions for tutorial problems and conducted **weekly tutorials** to help students solve the problems