E Abhishek

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EDUCATION

Indian Institute of Technology Bombay — 2019-23
B.Tech in Electrical Engineering with Honours — *CPI: 9.01*

PROFESSIONAL EXPERIENCE

Automation Engineer | 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

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

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, Django, 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 - Apr '23)*
- **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

Manager | Impulse - Electrical Department Fest — *(Jan '23 - Apr '23)*
- **Planned** and executed competitions with over 300 participants, coordinating prize funds totalling Rs. 50k.
- **Coordinated** a successful alumni event, featuring interactive sessions, engaging **200+** students.