

Yuvi Dhelawat

+91-9460238094 | yuvidhelawat@gmail.com | [LinkedIn](#) | [GitHub](#) | [Website](#)

EDUCATION

Indian Institute of Technology, Patna

Bachelor of Technology in Electrical Engineering , CPI - 8.62

Patna, India

2018 – 2022

Senior Secondary Education, CBSE

94.4%

Jaipur, India

2018

PROJECTS

Parameter Estimation in Optical Fibre Systems using Deep Learning | *Python, MATLAB, Deep Learning*

- Course Project for EE-304 Design Lab, under Dr. Sumanta Gupta (Associate Professor, IIT Patna).
- Generated dataset with over 30,000 signals using MATLAB for an optical fibre system.
- Trained deep learning models for estimating the type of modulation and length of the fibre for 75 different combinations of OSNR, Pulse Peak Power and Modulation Frequency.
- Loss for the prediction of length stood at 1.93 (MAE), while the estimation for type of modulation showed close to 99% accuracy.
- **Source Code Link**

Speech to Text Converter | *Python, Librosa, Streamlit, Signal Processing, Deep Learning*

- Trained a simple voice command recognition model.
- Used **Google Speech Command's dataset** having over 65,000 voice samples for 31 categories. Used **Librosa** for preprocessing the audio.
- Trained a CNN model using tensorflow, capable of detecting set of 31 words with test accuracy 87.2%.
- Developed a WebApp using **Streamlit**. Deployed on Heroku.
- **Source Code Link** | **Deployment Link**

Flipr Hackathon - COVID-19 Prediction | *Python, Exploratory Data Analysis, Machine Learning*

- Participated in 6th Flipr Hackathon and completed the ML task with highest possible score for Accuracy.
- Used COVID data from 787 cities, with a total of 12 different categories, like number of hospitals, size of city, female population, number of tourists.
- Made predictions for the number of COVID cases using Random Forest.
- **Source Code Link**

CS-384 Course Projects | *Python, SQL, Regex, Pandas, Tkinter, GUI Development*

- Created a Quiz Portal for Academic Purposes using Tkinter with features such as login/sign up, exporting scores, results as csv files, etc. **Source code link**
- Created Basic Notepad using Tkinter with features matching those of a regular notepad. **Source code link**

PROGRAMMING SKILLS

Most experienced with: Python, C, C++, Tensorflow, Streamlit, Tkinter

Somewhat experienced with: HTML, CSS, Javascript, SQL, Django, Flask, MATLAB, Verilog HDL

Familiar tools: Git, GitHub, LTSpice, ModelSim

OTHER ACHIEVEMENTS/ EXTRA CURRICULARS

- **Rated 1843** on **CodeChef** and **Rated 1400** on **Codeforces**.
- **Ranked 139, 573 and 551** in **January Cook-off**, **February Long-Challenge** and **May Cook-off** on Codechef respectively.
- **Solved Over 500** questions on various competitive programming platforms such as Codeforces, Codechef, Leetcode, etc.
- Secured **AIR 4775 in JEE Mains** and **AIR 5835 in JEE Advanced** in 2018.
- **Overall Fest Coordinator** of the **Annual Techno-management Fest** of IIT Patna, Celesta for 2020 Edition.
- **Coordinator**, Content and Management at **Student's Association for Alumni Relations**, IIT Patna.
- Currently writing my first Fantasy Fiction Novel - The Knights of Thea.
- Represented IIT Patna in badminton at the **53rd Inter IIT Sports Meet, 2018**.