GOPAL RAMESH DAHALE

Undergraduate

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⬡ Gopal-Dahale

EDUCATION

BTech (Honours) in Electrical Engineering with specialization in Computer Science
Indian Institute of Technology, Bhilai

📅 Aug 2018 – Ongoing   📊 9.11/10.0

Coursework

- Graph Theory & Applications
- Operating Systems
- Data Analytics & Visualisation
- Neural Networks & Deep Learning (Coursera)

High School
Kendriya Vidyalaya, ONGC Panvel

📅 2017 – 2018   📊 95.6 %

PROJECTS

Distribution & Requirement of Medical Resources for Covid 19 & Factors Affecting Hospitalization

📅 Sept 2020 - Nov 2020   ⬡ Link

- As a member of team of 5, analysed and **predicted the ICU admission of confirmed cases** using models like **Logistic Regression, ROC-AUC**.
- **Proposed a window model** to make the prediciton more clinically relevant and **achieved a R2-score of 0.8+** over test datasets.
- Extracted & visualized weekly **hospitalization rates in USA** for various age-groups and medical conditions.
- <u>Utilized:</u> **Python, Pandas, NumPy, Plotly, Scikit-Learn.**

Playlist Creation

📅 Aug 2020 - Sept 2020   ⬡ Link

- Automated the task of playlist recommendation using a **scoring function based on Borda's method** for 3 different topics.
- Extracted about **3000 videos data using Youtube Data API** using filters. Preprocessed, analysed and visualised the data & Tabulated my results.
- <u>Utilized:</u> **Python, Matplotlib, Pandas, NumPy.**

Detecting Covid 19 with Chest X-rays

📅 July 2020- Aug 2020   ⬡ Link

- Classified Covid, viral & normal cases using Resnet18 pretrained model. Transformed and augmented the data & **achieved 0.95+ accuracy**.
- Deployed a **simple streamlit web app** to showcase the results.
- <u>Utilized:</u> **Python, Pytorch, NumPy, Matplotlib,Streamlit,Flask.**

Covid 19 India Tracker

📅 May 2020 - June 2020   ⬡ Link

- Developed an Android app using for **tracking Covid spread in Indian states & districts**. Illustrated the data using India map.
- Preprocessed the data obtained from covid19india/api.
- <u>Utilized:</u> **Kotlin, Javascript.**

Load Flow Analysis

📅 Feb 2020 - April 2020   ⬡ Link

- Solved the **Load-Flow problem using Guass-Seidel** iterative method.
- <u>Utilized:</u> **C++.**

EXPERIENCE

SWE Summer Intern
MeetAI

📅 May 2021 - July 2021   📍 Remote

- Revamped the **UI/ UX** by of the project **(Telgro)** by implementing Material-UI styling.
- Desgined and implemented **RESTful APIs** in Django.
- Managed continuous **maintenance**, **troubleshooting** and **deployment of Frontend & Backend**.
- Designed a **3PL item response model** to incorporate response time for **predicting student's response**.
- Designed a **Lognormal RT model** for **predicting student's speed**.
- Validated with **80% accuracy** on synthetic data. and **deployed the models/infrastructure** and software that uses these models.
- **Leveraged Knowledge of ReactJs, Django, Material-UI, Firebase, Heroku**

SWE Winter Intern
Newzera

📅 Dec 2020 - Jan 2021   📍 Remote

- Created **5 GraphQL APIs (Queries, Mutations)** for friends & following in Newzera's Application.
- Performed **Query Performance Analysis** on MySQL queries for the APIs.
- Integrated those APIs in frontend along with pagination of data.
- Tested those APIs for **loading, data & error states** and achieved a **test coverage of 95%+** on both client side & backend.
- **Leveraged Knowledge of React Native, GraphQL, Apollo Client, MySQL, Git, Jest, Enzyme**

C++ Developer Intern
cppsecrets.com

📅 Aug 2019 - Nov 2019   📍 Remote

- Published **10+ articles** on C++ Boost chrono library with over **1500+ views and 50+ likes**.
- **Leveraged Knowledge of C++, Boost**

STRENGTHS

Proficient: | C/C++ | | Python | | ReactJs | | Firebase |

Familiar: | Django | | Kotlin | | React Native |
| GraphQL | | MySQL | | Jest/Enzyme | | Pytorch |
| Scikit-learn | | Flask | | Streamlit | | LaTeX |

ACHIEVEMENTS

Completed an online course Data Analysis with Python organised by Jovian.ai

📅 Aug 2020 - Sept 2020   🌐 Credential

Participated in 30 days of Kotlin campaign organised by Google.

📅 May 2020 - June 2020   🌐 Credential