GOPAL RAMESH DAHALE

Undergraduate

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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.
- **Utilized: 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.
- **Utilized: 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.
- **Utilized: 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.
- **Utilized: Kotlin, Javascript.**

Load Flow Analysis

Feb 2020 - April 2020 | Link

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

EXPERIENCE

SWE Winter Intern

Newzera

Dec 2020 - Jan 2021 | Work from home

- 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 | Work from home

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

STRENGTHS

Proficient: C/C++ | HTML/CSS/Javascript | Python

Familiar: Kotlin | React Native | GraphQL | MySQL | Jest/Enzyme | Pytorch | Scikit-learn | Firebase | 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

Completed Responsive Web Design Developer Certification from freeCodeCamp

Jan 2020 - March 2020 | freeCodeCamp

Verified Skills & Badges on HackerRank

Jan 2019 - Sept 2020 | Credentials

Earned Qwiklabs Essential Badges from Google Cloud Training

Aug 2019 - Sept 2019 | Badges