# **Bhaven Naik**

### **Education**

**Master of Applied Computer Science (graduated),** St. Francis Xavier University

2020 – 2022

Antigonish, Canada

**Bachelor of Computer Engineering (graduated),** University of Mumbai

2016 – 2020 Mumbai, India

#### **Skills**

### **Technology**

Python, PyTorch, Tensorflow, ReactJS, NodeJS, ExpressJS, HTML5, Bootstrap5, CSS3, Docker, PostgreSQL, MySQL, MongoDB, Hadoop, Flask, Keras, Pandas, Scikit-learn, Linux, macOS, Windows.

#### **Tools**

VS Code, GitHub, Power BI, AWS (EC2 and S3), MS Office, JetBrains (PyCharm, WebStorm), Slack, Zoom, Microsoft Teams, Discord, Anaconda, Jupyter.

## **Professional Experience**

## **Research Assistant,** St. Francis Xavier University □

09/2021 - 04/2022

• Worked on developing a GAN as a research project to gain deeper insights into applications of Generalized Adversarial Networks in the field of Medical Science.

Antigonish, Canada

- Developed a GAN that could produce augmented videos of Human Action Recognition using PyTorch and PyTorch Lightning on the HMDB51 dataset.
- Using a pre-trained video classifier available in PyTorchVideo, tested whether the augmented videos help in improving the performance of the classifier.

#### **Internship Trainee,** *EduVance*

06/2018 – 07/2018 Mumbai, India

- Worked on Python basics, File I/O, exception handling, lambda and map functions, list comprehension, and hands-on learning in Jupyter Notebooks.
- Worked on traditional Machine Learning algorithms like Decision Trees, Linear, Multivariate, and Polynomial Regression, Stochastic Gradient Descent, and Perceptron.

## **Projects**

#### Full-Stack Contact Form 🗷

01/2023 - 02/2023

- Created frontend contact form using ReactJS and designed it using Material-UI.
- Created a backend server using ExpressJS and used Nodemailer to send an email on form submission.
- Used Formik to handle the form submission and yup for form object schema validation.

## Portfolio Website 🛮

10/2022 - 11/2022

- Created portfolio website using ReactJS.
- The website was designed using React-Bootstrap.
- Deployed the website using Firebase Hosting on a custom domain.

## **Diabetic Retinopathy Identification 2**

03/2019 - 05/2020

- Worked with TensorFlow Keras to fine-tune a pre-trained VGG16 model with custom classes.
- Created a client interface using Flask, HTML, and CSS.
- Deployed the project using an AWS EC2 instance.

## ML Model Deployment Demonstration 🖸

01/2023 - 01/2023

- Used Hugging Face Inference API for the ML model.
- Created Model API using FastAPI.
- Created Docker Image for deployment.

## Exploratory Data Analysis 🛮

01/2023 - 01/2023

• Performed EDA on the Iris Flower dataset using Python and Jupyter Notebook.