Bhaven Naik

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Github

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
Antigonish, Canada

- 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.
- 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.

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.

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 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.