

# Bhaven Naik

## Machine Learning Engineer

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🐙 Github

### Professional Experience

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**Research Assistant Intern, St. Francis Xavier University** [🔗](#) 09/2021 – 04/2022  
Antigonish, Canada

- Conducted research on applications of GANs in Augmentation and Medical Imaging.
- Fine-tuned a PyTorch Lightning DCGAN on the HMDB51 dataset.
- Used PyTorchVideo's pre-trained classifier to test the performance of the augmented clips.

**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.

### Skills

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#### Technology

Python, PyTorch, Tensorflow, Keras, Pandas, Numpy, Scikit-Learn, Matplotlib, Docker, FastAPI, Hadoop, Flask, ReactJS, NodeJS, ExpressJS, HTML5, Bootstrap5, CSS3, Docker, PostgreSQL, MySQL, MongoDB.

#### Tools

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

#### Certifications

IBM Machine Learning Essentials

### Projects

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**ML Model Deployment Demonstration, Python, FastAPI, Docker, PyTorch** [🔗](#) 01/2023 – 01/2023

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

**GAN Augmentation, Python, PyTorch, PyTorch Lightning, PyTorchVideo** [🔗](#) 09/2021 – 04/2022

- Researched the use of GANs in the field of Medical Science.
- Fine-tuned a PyTorch Lightning DCGAN on the HMDB51 dataset.
- Used PyTorchVideo's pre-trained classifier to test the performance of the augmented clips.

**Exploratory Data Analysis,** 01/2023 – 01/2023

*Python, Jupyter, Pandas, Scikit-learn, Matplotlib, Seaborn* [🔗](#)

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

## Diabetic Retinopathy Identification,

03/2019 – 05/2020

*Python, Tensorflow, Keras, Flask, HTML, CSS, AWS EC2* 

- 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.

## Education

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**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