

# Bhaven Naik

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## Career Objective

Looking for a challenging career in Software Development which demands the best of my professional ability in terms of technical and analytical skills.

## Education

Master of Applied Computer Science  
St. Francis Xavier University | September 2020 – December 2022

B.E., Computer Science  
University of Mumbai | August 2016 - May 2020

- Passed BE Computer Engineering with 7.75 CGPA on a 10-point scale.

## Work Experience

Research Assistant  
St. Francis Xavier University | Sep 2021 - April 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.
- Developed a GAN that could produce augmented videos of Human Action Recognition using PyTorch and PyTorch Lightning.

Internship Trainee  
EduVance | June 2018 - July 2018

- Worked on Python basics, File I/O and Exception Handling. Learned about Jupyter Notebooks and traditional Machine Learning algorithms like Decision Trees, Type of Regression, and Stochastic Gradient Descent, and Perceptron.

## Projects

React Portfolio | October 2022 – November 2022

- Developed Personal Portfolio using ReactJS, HTML and CSS.

Generalized Adversarial Networks for Data Augmentation in Human Action Recognition | September 2021 - April 2021

- Worked on developing a GAN using PyTorch Lightning which can be used to augment action recognition videos on the HMDB51 dataset.
- Using a pretrained video classifier available in PyTorchVideo, tested whether the augmented videos help in improving the performance of the classifier.

Diabetic Retinopathy Identification | March 2019 - May 2020

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

## Research & Publications

- Naik, B. Nihatkar, S. Makwana, Y. and Bhole, C. "Diabetic Retinopathy Identification." GRENZE International Journal of Engineering and Technology (GIJET) (2020): 101-105.

## Technical Skills

### Languages

Python, C

### Software

Visual Studio Code, Anaconda, Jupyter, PyCharm, Hive, Sqoop, Git, GitHub, AWS CLI, AWS EC2, AWS S3, Microsoft Office, Adobe Acrobat DC, WebStorm

### Operating Systems

Linux, MacOS, Windows

### Libraries/Frameworks

PyTorch, PyTorchVideo, PyTorch Lightning, TensorFlow, Keras, Flask, Hadoop, Pandas, Numpy, Scikit-learn, Matplotlib, black, flake8, typing, isort, mypy

### Database

MySQL, MongoDB

### Web Development

HTML, CSS, ReactJS, JavaScript, ExpressJS, NodeJS

## Courses & Certifications

- IBM Machine Learning Essentials – 2017 Badge
- NPTEL ELITE Certificate for Data Base Management Systems
- NPTEL ELITE Certificate for Introduction to Programming in C
- NPTEL Certificate for Computer Organization and Architecture: A Pedagogical Aspect
- Academind-react- The Complete Guide (incl. Hooks, React Router, Redux)

