

Bhaven Naik

| (902) 318-7215 | naikbhaven11@gmail.com
[linkedin.com/in/bhaven-naik](https://www.linkedin.com/in/bhaven-naik) | github.com/bhaven123

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 - Present

B.E., Computer Science
K. J. Somaiya Institute of Engineering and Information Technology,
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, Lambda, and map functions along with List comprehension in Jupyter Notebooks.
- Also worked on traditional Machine Learning algorithms like Decision Trees, Linear Regression, Multivariate and Polynomial Regression, Stochastic Gradient Descent, and Perceptron.

Projects

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 Components: (EC2, S3, Security Groups), 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)