

Bhaven Naik

Machine Learning Engineer

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🐙 Github

Professional Experience

- Research Assistant Intern, 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.

Skills

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

- 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
- 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.

Exploratory Data Analysis, <i>Python, Jupyter, Pandas, Scikit-learn, Matplotlib, Seaborn</i> <ul style="list-style-type: none">Performed EDA on the Iris Flower dataset using Python and Jupyter Notebook.	01/2023 – 01/2023
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Diabetic Retinopathy Identification, <i>Python, Tensorflow, Keras, Flask, HTML, CSS, AWS EC2</i> <ul style="list-style-type: none">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.	03/2019 – 05/2020
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Education

Master of Applied Computer Science (graduated), <i>St. Francis Xavier University</i> 	2020 – 2022 Antigonish, Canada
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Bachelor of Computer Engineering (graduated), <i>University of Mumbai</i>	2016 – 2020 Mumbai, India
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