

Bhaven Naik

Machine Learning Engineer

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🐙 Github

Profile

As a skilled Machine Learning Engineer with experience in Python, PyTorch, Tensorflow, Keras, Pandas, Numpy, Scikit-Learn, and Matplotlib, I am well-versed in the development and deployment of machine learning models. Additionally, my proficiency in Flask, ReactJS, NodeJS, and HTML5 enables me to build robust client interfaces. With a Master of Applied Computer Science from St. Francis Xavier University, I am eager to leverage my skills and knowledge to contribute to innovative projects in the field of machine learning.

Professional Experience

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| Research Assistant Intern, St. Francis Xavier University 🔗 | 09/2021 – 04/2022 |
| <ul style="list-style-type: none">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. | Antigonish, Canada |
| Internship Trainee, EduVance | 06/2018 – 07/2018 |
| <ul style="list-style-type: none">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. | Mumbai, India |

Projects

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| ML Model Deployment Demonstration, Python, FastAPI, Docker, PyTorch 🔗 | 01/2023 – 01/2023 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">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, Python, Jupyter, Pandas, Scikit-learn, Matplotlib, Seaborn 🔗 | 01/2023 – 01/2023 |
| <ul style="list-style-type: none">Performed EDA on the Iris Flower dataset using Python and Jupyter Notebook. | |
| Diabetic Retinopathy Identification, Python, Tensorflow, Keras, Flask, HTML, CSS, AWS EC2 🔗 | 03/2019 – 05/2020 |
| <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. | |

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

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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