NamitraKalicharran

Aspiring Bioinformatician

about

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Canada

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github.com/NamitraKali

programming

JavaScript
Python, Pandas
CSS3 & HTML5

interests

Machine learning, Deep Learning, Data mining, Structural Bioinformatics, Differential Equation Modelling

education

2016–2020 **Prospective B.Sc. Honours Science** — University of Waterloo
Bioinformatics Option and Minor in Computing Technology. Courses covered include Microbiology, Genomics, Computer Architecture, Data Structures and Algorithms

experience

05–07 2018 **Research Assistant** — University of Waterloo
Culturing bacteria, performing basic synthetic biology experiments.

projects

PyTorch **X-RayConv Pneumonia Diagnosis** https://github.com/NamitraKali/XrayConv
Performed Transfer Learning on a pretrained ResNet50 model using PyTorch. Basic exploratory data analysis using NumPy and Matplotlib. Obtained accuracy of 90%.

PyTorch **Hand Written Digit Classification** https://github.com/NamitraKali/PyTorch-ConvNet
Created and trained a Convolutional Neural Network, in PyTorch, to classify handwritten digits from the MNIST dataset, with over 90% accuracy.

Keras **Stock Price Prediction** https://github.com/NamitraKali/Stock-Price-Prediction
Financial feature engineering using Pandas. Created and trained a Recurrent Neural Network, using Keras, to predict the movement of Google stock prices.