NamitraKalicharran

Aspiring Bioinformatician

about

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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.

2018	**Bioinformatics Club Vice-President**	University of Waterloo

Responsibilities include managing club budget, organizing and presenting in events such as weekly journal talks, tutorials, and "Prof Talks".

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.