

VEDANT PATEL

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EDUCATION

Master of Science, Computer Science and Engineering,

Aug 2021-Present

University at Buffalo, The State University of New York

GPA: 3.5/4.0

Relevant Coursework : Analysis of Algorithms, Operating System and Machine Learning

Bachelor of Technology, Information Technology,

Jul 2016-Jun 2020

Institute of Technology, Nirma University

GPA: 7.73/10.0

Relevant Coursework : Data Structures and Algorithms, Software Engineering, Microservices and Programming, Information Retrieval System, Machine Learning and Deep Learning.

TECHNICAL SKILLS

Languages and frameworks: Python, Java, C/C++, Flask, HTML/CSS, JavaScript, MySQL, NoSQL, MongoDB.

Libraries: NumPy, Pandas, Matplotlib, OpenCV, Keras, Tensorflow, SMOTE.

Tools and Technologies: Android Studio, Firebase, Tableau.

PROJECTS

Digits Classification problem

Nov 2021-Dec 2021

- Performed 4 Models (SVM, Logistic Regression, Symmetric Cross Entropy Learning and LDAM-DRW) for digits classification problem.
- Improved models performance on Imbalanced, Symmetric and Asymmetric Noisy data.

Fashion Product Recommendation System

Jul 2020-Oct 2020

- Built a recommendation System for fashion products using CNN. Result would be similar images based on the given image.
- Proposed a ML algorithm with higher semantic quality and similarity between objects.

Conversational AI (A Question-Answering Chatbot),

Jan 2020-May 2020

- A python Flask web-app based chatbot that answers users questions from a text or a table instantly. Models: BERT, MemN2N and SEMPRE.
- This project was aimed to create an end to end Conversational AI system using minimal resources.

Emotion recognition from text,

Jan 2019-May 2019

- Built a model to extract various emotions from text.
- Used a multichannel combination of CNN and LSTM units for classifying the short text into five different emotions.
- Achieved accuracy of 80% accuracy on tweets data.

Image Captioning,

Jul 2019-Nov 2019

- Built Convolution Neural Network and Long-Short Term Memory models on Flickr 8K dataset
- Extract the caption of the given image and achieve high accuracy with a greedy approach along with train models.

Text-To-Speech Application

May 2018-Jul 2018

- Built Java based Text to Speech application. Generate expressive and emotional voice using voice synthesis technology.

WORK EXPERIENCE

Android Intern, Sumay Infotech,

May 2018-Jul 2018

- Worked on an application called "Finance Management System".
- Made this app on a global platform with the help of Firebase tool using Android Studio application.

COURSES AND WORKSHOPS

Coursera - End-To-End Machine Learning with Tensorflow on GCP.

Coursera - Neural Network and Deep Learning.

A five-day Deep Learning Workshop by Dr. Xingquan Zhu, Prof. of Florida Atlantic University.

5 hours seminar on AWS Innovative Online Conference 2019.