

KARTIK ANEJA

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EXPERIENCE

Mozilla Builders: Fix-The-Internet-Open Lab Program

Builder/Developer · Apr. 2020 to June 2020

Worked on a project under Mozilla Builders Open Lab program. Developed a web-based application for relief coordination on Twitter using machine learning models to identify and match resource requests and offers. The website lists donation/request tweets location-wise, based on search.

Stony Brook University

Graduate Teaching Assistant · Jan. 2020 to May 2020

Working under Prof. Murali Subbarao as a Teaching Assistant for the undergrad course Data Structures and Algorithms in C++.

Texas Instruments University Program, NSIT

Summer Training Intern, Embedded Systems Design · May 2016 to June 2016 · New Delhi

Studied Micro-controller based Embedded Systems Design | Worked on TI-MSP430 | Architecture | Timers | Interrupts | Embedded C programming | EAGLE | PCB designing

EDUCATION

State University of New York, Stony Brook University · Aug. 2019 to Current

M.S. Computer Engineering

GPA: 3.67/4.00

Jaypee Institute of Information Technology · Aug. 2014 to June 2018

B.Tech Electronics and Communication Engineering

SKILLS

PROGRAMMING LANGUAGES: JAVA, Embedded C, Python, MATLAB, C, HTML, CSS

TOOLS: H-SPICE, EAGLE, Code Composer Studio, Latex, MySQL, Git, Visual Studio

MICROPROCESSORS AND SOCS: Raspberry Pi, TI-MSP430, Intel 8085, Arduino

OS: Linux, Windows, Raspbian

FRAMEWORKS: Pandas, NumPy, Matplotlib, Scikit, Scrapy

PROJECTS

Sentiment Analysis on Textual Resources

Oct. 2019 to Dec. 2019

Modeled a Support Vector Machine(SVM) in Python to classify whether a review represents a positive or negative sentiment. Trained model on word embeddings created using TF-IDF Bigrams on the Amazon Online Customer Reviews Data from Kaggle. Tested the model on new test data from Amazon.com obtained by using web crawling and web scraping techniques.

Breast Cancer Prediction using k-Nearest Neighbors (k-NN)

Sept. 2019 to Oct. 2019

Implemented k-Nearest Neighbor algorithm from scratch in Python to classify if an individual has a malignant or benign case of breast cancer.

Twitter Trend and Sentiment Analysis Bot using Raspberry Pi

Feb. 2017 to May 2017

Developed a Twitter bot based on Raspberry Pi using the Twitter Application Programming Interface to filter out tweets under a particular hashtag and display it on a screen. Further modeled the bot to tweet out an automated reply to the users using the hashtag. Analyzed the tweets with NLTK library, tokenization of words. Trained model on word embedding created using TF_IDF.

Image Classification using Convolutional Neural Network

Nov. 2019 to Dec. 2019

Trained the AlexNet Convolutional Neural Network for the purpose of image classification by fine-tuning the last layers. Achieved a prediction accuracy of 82% on the test dataset.

RELEVANT COURSES

Cloud Computing, Analysis of Algorithms, Data structures and Algorithms, Machine Learning, Computer Networking, Internet Of Things, Object Oriented Programming, Microprocessors and Micro-controllers, Digital Signal Processing, Control Systems, Unix.