AAKASH BHATIA

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PROFESSIONAL EXPERIENCE

Stony Brook University

Stony Brook, NY

Graduate Researcher - Natural Language Processing and Machine Learning

Jan 2020 to present

- · Advised by Dr. Ritwik Banerjee
- Research area: Study the spread of misinformation in medical news.
- Master's Thesis: Data-set creation and Machine Learning model development to study textual entailment and perform classification of medical news.

Ernst & Young LLP Mumbai, India

Associate Consultant

June 2016 to July 2019

- Performed anomaly detection on client systems in the Financial Services sector and developed applications to automate audit procedures, reducing weekly effort by over 75%.
- Led a team of 6 to conduct an I.T. General and Application Controls for a multinational Investment Bank. My team was awarded the EY Spotlight Award for delivering exceptional quality on this engagement.

SKILLS

Programming Languages: Python, SQL, JavaScript, C, C++, Java

Data Science Libraries: Pandas, Numpy, Scikit-Learn, NLTK, TensorFlow, PyTorch, d3.js

Technologies: Docker, Apache Hadoop, Apache Spark, IBM DB2, Linux Operating System, Git

PROJECTS

Doctor Diabetes Stony Brook University

SBU Hacks 2020 Fall 2020

- Developed a web-application which uses machine learning to detect diabetes based on a patients medical data.
- Classification was performed using a Multi layer Perceptron and an accuracy of 88% was acheived.
- · Technologies Used: Python, TensorFlow

Classification of Deceptive Hotel Reviews

Stony Brook University

Course project: CSE 512 - Machine Learning

Spring 2020

- Re-implementation of an NLP Research paper to perform classification of truthful and deceptive reviews for the top 25 hotels in Chicago obtained from Trip Advisor. Classification was performed using Naive Bayes classifier and Support Vector Machines (SVM).
- Key Finding: Using the SVM classifier along with trigram encoding and tf-idf, we were able to obtain an accuracy of 89.75% and an F1 score of 89.94%.
- Technologies Used: Python, Scikit-Learn, NLTK

COVID-19 Analytics using Hadoop and Spark

Stony Brook University

Course project: CSE 532 - Theory of Database Systems

Spring 2020

- Studied the spread of COVID-19 from Dec '19 to Mar '20 using MapReduce.
- Statistics derived: No. of cases per million, No. of cases for a given time-period, No. of cases per country, city and zip-code.
- Technologies Used: Docker, Python, Java, Apache Hadoop, Apache Spark

Interactive Dashboard for Road Accident Analysis

Stony Brook University

Course project: CSE 564 - Visualisation and Visual Analytics

Spring 2020

- Developed a single screen, interactive dashboard to study the effects of weather conditions on road accidents from 2014-2019.
- Performed dimension reduction using Principal Component Analysis (PCA), stratified sampling using K-means clustering and visualised over 1 million data-points.
- Key Findings: Using a combination of a PCA scatter-plot and parallel co-ordinate chart, we identified distinct clusters of data-points. These clusters represented the weather conditions responsible for accidents based on their severity.
- Technologies Used: Python, d3.js, Flask

EDUCATION

Stony Brook University

Stony Brook, NY

M.S. Computer Science - Data Science and Engineering

Expected Graduation: May 2021

Relevant Coursework: Machine Learning, Natural Language Processing, Artificial Intelligence, Data Visualisation and Visual Analytics, Theory of Database Systems, Analysis of Algorithms

University of Mumbai

Mumbai, India

B.E. Computer Engineering

Aug 2012 to May 2016