Mehul Agrawal

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Education

BITS Pilani Hyderabad Campus	2017 - Present
B.E. (Hons.) in Computer Science	7.67*/10
Doon International School	2017
Higher Secondary (CBSE 12th)	93.2%
Summer Valley School	2015
High School (ICSE 10th)	96.4%

Experience

Edifecs, Mohali May 2019 - Present

Summer Intern

- Working closely with the engineering and operations team at Edifecs to learn about the challenges faced by the Healthcare Industry, particularly in the United States, and how various IT services are deployed there to improve efficiency and reduce costs.
- Studying the Electronic Data Interchange (EDI) standards and implementation in the context of the Healthcare Industry and the end-to-end process which goes into deploying it.

Key Projects

Classification of Nursery Applications using KNN and Naive Bayes

Apr 2019

Data Mining

- Trained and tested a classification model for ranking nursery applications based on 8 different factors
- o Implemented KNN and Naive Bayes from scratch in Python and achieved an accuracy of 89%

Detection of Fraud Credit Card Transactions using Outlier Detection

Mar - Apr 2019

- Data Mining
- Implemented Local Outlier Factor (LOF) and DBSCAN techniques in Python for detecting fraud transactions
- Used PCA for dimensionality reduction and plotted a 2D-Plot of the dataset for different parameters (Epsilon for DBSCAN and K for LOF) highlighting outliers

Movie Database Portal Feb - Apr 2019

Database Systems

- o Created a web based movie database portal using Apache, MySQI and PHP
- Implemented features like customized homepages, past and upcoming Movies/TV-Shows listings, news/trivia and top lists
- Added functionality like befriending people and following celebrities to make a social network for movie lovers

Cluster Analysis on Amino Acid Sequences

Feb - Mar 2019

Data Mining

 Implemented K-Means and Hierarchical clustering in Python with agglomerative and divisive approaches using different types of linkages to identify clusters in amino acid sequences

Association Rule Learning on Large-scale Transaction Data

Jan - Feb 2019

Data Mining

o Implemented Apriori and FP-Growth algorithms from scratch in Python

 Generated frequent item-sets and association rules for different values of support and confidence for both algorithms on a grocery transaction data-set

Hotel Booking Portal

Sep - Nov 2018

Object Oriented Programming

- o Created a complete Hotel Booking Portal using Java and MySQL
- Used Swing for frontend
- o Features include creating users, searching hotels, modifying/cancelling bookings and wait-listing

Skills

- o Proficient in Python, Java, C/C++, SQL
- Familiar with HTML/CSS

Achievements

- o 99.4 percentile (AIR 7194) in Joint Entrance Examination Main
- o 359/450 in BITSAT. Among the top ~2700 students in the country
- o School rank 1 in National Science Olympiad (Class 12th) Stage 1 and qualified for Stage 2

Extracurricular

- o Sangeet Prabhakar in Tabla from Prayag Sangeet Samiti, Allahabad. (6 year course equivalent to B.A. in Music). Also started **TaalGyan** as an online resource to learn classical music and tabla
- Member at Swaranjali (Classical Music Society of BPHC)
- Member at ELAS (English Language and Activities Society of BPHC)