VISHAL PATEL

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EDUCATION

IIIT HYDERABAD
M.Tech In Computer Science
Aug,2020 - May,2022
CGPA : 8.24 / 10

BIRLA VISHVAKARMA MAHAVIDYALAYA,VALLABH VIDHYANAGAR
B.E. In Computer Engineering
July,2014 - June,2018
CGPA : 7.23 / 10

DIWAN BALLUBHAI SCHOOL,KANKARIYA,AHMEDABAD
Gujarat State Education Board
Class 12 : 80.15 %

NAVIN SARVA VIDHYALAYA,VADNAGAR
Gujarat State Education Board
Class 10 : 94 %

SKILLS

PROGRAMMING :
C • C++ • Python
DATA ANALYTICS :
Numpy • Pandas • Scipy
Familiar with :
HTML • CSS • Javascript • JAVA

COURSEWORK

PostGraduation
Statistical Methods in AI
Natural Language Processing
Data Analytics
Advanced Operating System
Software System Design
Advanced Problem Solving

UnderGraduation
Computer Networks
Database Management System
Operating System
Data Structure and Algorithms

PROJECTS

WIKIPEDIA SEARCH ENGINE

- Designed a complete search engine on top of 84 GB Wikipedia corpus using block sort based indexing to create Inverted Index of size less than 1/4th of corpus size with sub-second latency for searches.
- It implements ranking mechanism based on TF-IDF score and provides additional support for field queries, along with normal queries.
- **Language used :** Python

PEER TO PEER GROUP BASED FILE SHARING SYSTEM

- Developed a file sharing system like BitTorrent, where users can upload and download files in a peer to peer network.
- It implements piece-wise selection algorithm for the transferring of files between the peers.
- **Language used :** C++

COLOUR BLINDNESS DETECTION

- The objective is to provide the users a way of detecting their specific colorblindness with the help of specific color maze.
- The maze-walls are designed in a way that the person with normal eye vision will see different colors on his walls of the pathways, but will appear different to the person with color blindness.The user is prompted to turn left in case he sees the maze walls of different color or turn right if the maze walls are of same color.
- At the end of course user gets the prompt about the type of color blindness he is facing.
- **Technology used :** HTML,CSS,JAVACRIPT,AFRAME

CODE MIXED GENERATION

- built a model which converts a English sentence to Codemix (English and Hindi) and vice-versa using a Neural Machine Translation (NMT) system.
- Implemented a sequence-to-sequence (seq2seq) machine learning models with Attention mechanism with or without LID tags to go from one sequence to another.
- **Language used :** Python