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Indian Institute of
Information Technology, Nagpur

EDUCATION

Indian Institute of Information Technology, Nagpur B.Tech in Computer Science and Engineering (GPA:7.1)	2017 - 2021*
Delhi Public School,Bikaner Senior Secondary (CBSE)(92.66 in PCM)	2016
Delhi Public School,Bikaner Secondary (CBSE)(CGPA:10.0)	2014

SELECTED PROJECTS

Garbage Collector For C :Simple Mark and Sweep Garbage collector is implemented for a 32-Bit architecture.The GC -Malloc allocates the Dynamic Memory using the Malloc call and adding the additional list which are Used List and Free List for keep tracking the status of the Memory.Scanning of the Heap is done by getting the stack address and also root sets.

Tap Search : A simple search engine was build. The paragraph of the text considered as documents and the words were hashed and stored in DB.A simple UI to search the word which is most frequent in a document and it was returned to user.(python+flask).

File Transfer Protocol:This was our group project of implementing the FTP over two host.We have used Python and OS library for converting any file into streams of bytes and then sending it to the other host via TCP/IP connection.

Process Scheduling:Implemented different process scheduling algorithms using C++ and concepts of operating systems. The scheduler implemented are Shortest Job First,Priority and Round Robin Scheduling.

Random Forest Implementation for Weather Prediction:In addition to the decision tree for a set of data predicting the weather the concept of random forest was used and implemented without using any external library.

Child Respiratory Disease : Collected the Data of FEV index (forced respiratory volume)Vs various dependent variable such as Age,Height and Smoker/Non-smoker and applied the different Multiple Regression Techniques to predict that whether smoking causes less FEV index.

TECHNICAL SKILLS

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

Tools and Frameworks: Django, Anaconda

Database: SQL, MongoDB.

Platforms: Linux, Windows

CODING SKILLS

Codechef Rating(1846):4 Star.

HackerRank:5 star.(Algorithms and Problem Solving)

Coordinator at Coding Club IIITN.

COURSEWORK

Academic Courses :

C Programming, Analog Electronics, Mathematics, Digital Electronics, Data Structures, Advanced Data Structures, Microprocessor, Computer System Organisation, Object Oriented programming(C++, Java), Design and Analysis of algorithms, Discrete Mathematics, Computer Networks, Database Management Systems, Theory of Computation.

AREAS OF INTERESTS

Data Structures and Algorithms.

Competitive Programming, Problem Solving.

Optimization, Big Data, Machine Learning.