Saurav Kumar Dubey

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Indian Institute of
Information Technology, Nagpur

EDUCATION

Indian Institute of Information Technology, Nagpur	*2016 - 2020**
B.Tech in Computer Science and Engineering	
DAV Public School, Dudhichua	*2014-2016*
Senior Secondary (CBSE)	
DAV Public School, Dudhichua	*2003-2014*
Secondary (CBSE)	

INTERNSHIPS

Software Engineering Intern - CleverTap   June 2019 - Present
Mumbai

· Working with CleverTap's backend engineering team. Working on core codebase of CleverTap. Enhanced various features like RFM, Pivots, Flows of CleverTap. Fixed various issues in back-end part. Worked on increasing the cache's performance by dropping the unused events in CleverTap.

Summer Intern - Indraprastha Institute of Information Technology, Delhi   June 2018
Delhi

· Worked on recipe pair prediction in which the task was to determine the highest average rated recipe amongst the pair of similar recipes.Region wise cuisine prediction was also calculated based on regions and ingredients.

PROJECTS UNDERTAKEN

Dynamic Memory Allocator : Implemented a dynamic memory allocator for C (64 bit systems) using heap's virtual address space.Used segregated free lists to maximize throughput and utilization.

Linux Mini Terminal : A Linux terminal implemented in C programming language using concepts of fork, exec, signals, pipes etc.Different kinds of interrupts were also handled.

File Sharing Protocol : Developed an application layer file transfer protocol, as a client-server model, with support for TCP/UDP.It had features like upload, download, indexed searching and application level error checking.

Disease Prediction : Disease Prediction by Machine Learning Algorithm (Decision Tree) over Big Data from Healthcare Communities.Used NoSQL database (mongoDB) for storing unstructured data of hospitals records.Used Decision Tree classifier, which yielded an approximate accuracy of 85%, Sensitivity of 75% and Specifity of 87%.

Adaigor : A django based music player app, which provides functionality of upload, store and play music by storing on cloud.

Data Management System : A student record data management system implemented using AVL trees and Linked Lists and file handling for storing data in C.

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python
Tools and Frameworks: IntelliJ, Django, Flask, MongoDB, REST APIs, GIT, Vim, LaTeX
Platform: Linux, Windows

COURSEWORK

Computer Programming, Data Structures, Advanced Data Structures, Discrete Mathematics, Computer System Organization. Object Oriented Programming, Application Programming, Design and Analysis of Algorithms, Operating System, Software Engineering. Computer Networks, Theory of Computation, Compilers, DBMS, Soft Computing.

RELEVANT INTERESTS

Algorithms, Data Structures, Programming Contests

Software Engineering, Software Development

Predictive Analytics

ACHIEVEMENTS

Four star (1813 rating) on Codechef.

Won first prize in quiz in Institute Gathering 2017, the inter branch cultural event.

District Topper in Secondary Examination in 2014.

CAMPUS ACTIVITIES

Founder of Programming Community at IIIT Nagpur.

Mess Representative at IIIT Nagpur.

Volunteered as coordinator of IEEE conference held in college.

Active participation on online competitive coding websites - CodeChef.

LINKS

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