

Saurav Kumar Dubey

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EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, (IIIT) NAGPUR

EXPECTED GRADUATION: 2020
B.TECH IN COMPUTER SCIENCE

LINKS

Codechef: [sauravsgri](#)
Medium : [sauravdubey](#)

COURSEWORK

Advance Data Structure
Object Oriented Programming
Operating System
Database Management System
Computer Networks
Software Engineering
Application Programming
Compilers

SKILLS

PROGRAMMING

Day to Day:

C++ • Java • C

Familiar:

Python • JavaScript • Shell •
HTML • CSS

TOOLS AND FRAMEWORKS

IntelliJ • MongoDB • Django
GIT • VIM • L^AT_EX

OPERATING SYSTEMS

Linux ♥

ACHIEVEMENTS

- Four star (1865 rating) on Codechef.
- Won first prize in quiz in Institute Gathering 2017, the inter branch cultural event.
- District topper in Secondary Examination in 2014.

POSITIONS

- Co-Founder of dotslast programming club at IIIT Nagpur.
- Former Mess secretary at IIIT Nagpur.
- Volunteered as coordinator of IEEE conference held in college.

EXPERIENCE

CLEVERTAP | SOFTWARE ENGINEERING INTERN

June 2019 – Nov 2019 | Mumbai, IN

- Worked with CleverTap backend engineering (analytics) team.
- Enhanced new features like un-sampling of RFM, Pivots, Flows that initially allows to draw distribution from 1 dimension eg, category-wise purchases, geography-wise purchases, brand-wise purchases etc. to the clients.
- Showed distributions and calculations on multiple dimensions of all the shards in a familiar spreadsheet like view, look at an event's session properties, geographical properties, technographics, demographics, and custom properties to rapidly isolate a unique trend or anomaly within an event.
- Worked on maintaining the daily event stats in MongoDB and increasing the cache's performance by dropping an unused events on the dashboard of CleverTap.
- CleverTap's clients like Hotstar, GoJEK, BookMyShow, Fandango etc. used the enhanced RFM, Pivots and Flows.

IIIT DELHI | SUMMER INTERN

June 2018 – July 2018 | Delhi, IN

- 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.

SELECTED PROJECTS

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 Decision Tree classifier, which yielded an approximate accuracy of 85%, Sensitivity of 75% and Specificity 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.

WEB MANIPULATOR

Simple web service that allows one to interact with two web-browsers link, Google Chrome and Mozilla Firefox.