**SAKSHAM GUPTA**

Course : **B.E. (Hons.)**, Computer Science, 2022
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CGPA : 8.44



## ACADEMIC DETAILS

| COURSE | SPECIALIZATION | INSTITUTE/COLLEGE | BOARD/UNIVERSITY | SCORE | YEAR |
|--------|---------------|-------------------|------------------|-------|------|
| CLASS XII | PCM + Computer Science | St. Thomas' College | ISC | 92.5 % | 2017 |
| CLASS X | Science + Computer Science | ST. THOMAS' COLLEGE | ICSE | 96 % | 2015 |

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|---|---|
| **Subjects / Electives** | Data Structures And Algorithms, Object Oriented Programming, DataBase Systems, Data Mining |
| **Technical Proficiency** | C++ Language, C Programming, Python, Java, Competitive Programming, Data Structures, Machine Learning |

## SUMMER INTERNSHIP / WORK EXPERIENCE

**Summer Intern, Telangana E-Governance (MeeSeva)**     May 2020 - Jun 2020
Worked on Project "**Bot For Customer Queries**", where we had to build a chat bot for T-Wallet app of MeeSeva, Telangana-eGovernance.
• Microsoft Azure Bot service is used to create the bot in professional chit-chat environment.
• QnA Maker a cloud based Natural Language Processing service was used to prepare the knowledge base for Bot.

## PROJECTS

**Adversarial Machine Learning in IoT - Machine Learning**     Aug 2020 - Dec 2020
Implemented the work of a research paper on Intrusion Detection System and extended it to an adversary attack.
○ IoT network was simulated using Cooja Simulator.
○ Intrusion Detection was performed via. multiple Machine Learning Algorithms.
○ Poisonous Attack was taken as an Adversary.

**Genetic Algorithm Selector - Artificial Intelligence**     Oct 2020 - Nov 2020
A Python based GUI application was developed to search for the optimal set of features from thousands of features.
○ Genetic Algorithm was implemented from scratch to solve the NP-hard problem.
○ Gtk Python lib was used to give a GUI where multiple options were presented for fitness function and graphs were generated in real time.

**Attendance Management System - Image Recognition**     Oct 2020 - Present
A Python Application which uses face recognition to mark and update the attendance in real-time in a CSV file.
○ Open-CV is used along with Face-Recognition to detect a face and its facial encoding is then compared with the stored data to mark present.
○ Currently working to give it a web based gui using Flask.

**Research Project - Data Mining**     Jan 2020 - May 2020
A complete Data Mining processing pipeline was created from dataset selection and understanding to preprocessing, visualization and analysis to drawing insights from real world datasets.
○ Data: Teaching Staff Data for Year 2015
○ Algorithms used for analysis after preprocessing included: Apriori Association Rule Mining, Kmeans Clustering and Grubbs Test for Outliers Detection.

**Cab Booking Java Application - Object Oriented Programming**     Aug 2019 - Dec 2019
Java Based application was created to book a cab with the nearest driver available and the feature to register a new user and an option to add money for an existing user.
○ Swing is used to prepare the GUI in NetBeans.
○ MySQL is the database of choice.

## POSITION OF RESPONSIBILITY

**Member Executive - Placement Unit BITS PILANI Hyderabad Campus**     Aug 2019 - Dec 2020

## TEST SCORES

| TEST NAME | DATE OF EXAM | SCORE |
|-----------|--------------|-------|
| Bitsat | May 25, 2018 | Score:344/450 |
| IIT-JEE | May 20, 2018 | Rank: 5415 |

## VOLUNTEER EXPERIENCE

**NSS** - Role: Volunteer | Cause: Education     Aug 2019 - Dec 2019

## EXTRA CURRICULAR ACTIVITIES

**Sports**
Active Snooker Team Member