

# Amaan Ansari

Junior Undergraduate  
Mechanical Engineering (Major) and Computer Science (Minor)  
Indian Institute of Technology, Gandhinagar

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## EDUCATION

Degree	Institute	CPI/%	Year
B.Tech	IIT Gandhinagar	8.40/10	2020-Present
Class XII	Dalimss Sunbeam School(CBSE Board)	93.8	2017-2018
Class X	St. John's School(ICSE Board)	91.8	2015-2016

## INTERNSHIP

- **Data Science Intern at UFG , Brazil** | *Project Link* [June-2023- July-2023]  
(Prof. Celso Camillo, UFG) | *Machine Learning*
  - **Project Experience:** Proficiently performed data preprocessing tasks, including data imputation, feature scaling, feature selection and outlier detection, ensuring the dataset's quality and integrity..
  - Implemented the **Kruskal-Wallis** non-parametric test for analyzing the statistical differences in employee turnover rates based on categorical variables, yielding p-values and effect sizes.
  - Utilized advanced statistical techniques like **chi-square** tests and t-tests for hypothesis testing on various HR metrics, unveiling crucial insights into the factors influencing employee turnover.
- **MapIT.ai, IIT Bombay** | *Certificate* [May-July 2022]  
*Software Engineer Intern | IOT , ML, JavaScript, HTML, C++, Kotlin*
  - Developed, tested and learned about **Indoor Positioning System** project and explored topics such as Multi-threading, concurrency and memory model.
  - Beacons were used as a source of **BLE**(BluetoothA low energy) and used Kalman filtering technique.
  - Fitted RSSI vs Distance using various regressions, among which Linear SVR was found to be the most suitable.

## PROJECTS

- **Medical Inventory system of IIT Gandhinagar** *Project Link* [Feb 2023-Mar 2023]
  - Designed and developed a dynamic web application using Flask and SQL, focusing on user-friendly interfaces and efficient data management.
  - Implemented secure user authentication to protect user data, ensuring a personalized and secure experience for application users.
- **Notes Zipper App**, *Project Link* [Dec 2020-Jan 2021]
  - Implemented secure user authentication to protect user data, ensuring a personalized and secure experience for application users.
  - Designed and developed a dynamic web application using Flask and SQL, focusing on user-friendly interfaces and efficient data management.
  - Demonstrated strong problem-solving skills and meticulous attention to detail, resulting in the successful delivery of a fully functional and responsive web application.
- **Tinkerers' Lab Booking System** *Project Link* [Jan 2022-Feb 2022]
  - Developed a Customised Booking System with Admin Panel for Tinkerers' Lab, IITGN .
  - Built using Node.js, MongoDB and EJS with a real-time mailing feature.
  - Used an API-based Approach for Operations, which enables other developers to further Contribute.

## TECHNICAL SKILLS

- **Languages:** Python, C++, C, JavaScript , Kotlin , HTML, CSS, SQL, Flask , MongoDB
- **Tools:** Pandas, Numpy, MATLAB, Flutter,  $\LaTeX$ , Adobe Illustrator, Autodesk Inventor , React

## EXTRA CURRICULAR ACTIVITIES

- Participated in a **Hackathon** with 3 others and came 1st at IIT Gandhinagar.

## ACHIEVEMENTS

- **LeetCode** 2 star | **Codeforces** max rating: 1190 | **HackerRank** 3 star | **Codechef** max rating: 1697
- Solved more than 300 questions on platforms like GFG, Coding ninjas, Hackerrank, LeetCode
- Secured a rank of 1600 in **Google Kickstart**.
- Secured a rank of 26 in **GeeksforGeeks job-a-thon**.
- One of the four to change the branch to Mechanical Engineering.
- Highest scorer for the course **ES 242 Data Structures and Algorithms - I**.

## POSITIONS OF RESPONSIBILITY

- **Academic Discussion Hours(ADH)**
  - Mentor for the course **Electrical Systems and Data Structures and Algorithms**, under the oCEO (on campus employment opportunity) program, IIT Gandhinagar.