

# Sandesh Singh

Junior Year | Mechanical Engineering | IIT Jodhpur  
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## EDUCATION

### IIT JODHPUR

B.TECH IN MECHANICAL ENGG.

DEPARTMENT RANK: 1

CURRENT CGPA: 8.58 / 10

May 2023 | Jodhpur, India

### THAKUR VIDYA MANDIR

CLASS 12 | HSC

PERCENTAGE: 88.2%

May 2019 | Mumbai, India

### THAKUR INT'L. SCHOOL

CLASS 10 | ICSE

PERCENTAGE: 96.8%(AGG.)

May 2017 | Mumbai, India

## SKILLS

### LANGUAGES

Proficient:

- Python • C • C++
- Dart • HTML • CSS

Familiar:

- Java • Javascript • Solidity
- Matlab • GraphQL • Latex

### DEVELOPMENT

- Django • Flutter • Vue.js
- Git • Firebase • Adobe XD

### OTHER SKILLS

- Competitive Programming
- Solidworks • AutoCAD
- Public Speaking • Debating
- Webinar Host • Quizzing

## LINKS

Portfolio://[Sandesh1013](#)

GitHub:// [Sandesh1013](#)

LinkedIn:// [Sandesh Singh](#)

CodeChef:// [sandesh77](#)

CodeForces:// [Sandesh1013](#)

## COURSEWORK

### UNDERGRADUATE

Introduction To Computer Science

Linear Algebra

Signals and Systems

Introduction to Machine Learning

Data Structures and Algorithms

Scientific Computations

### MOOC'S

Flutter and Dart-The Complete Guide

Responsive Web Design

Django Developer Bootcamp

Ethereum and Solidity\*

## EXPERIENCE

### LUMENCI | SUMMER INTERNSHIP

May 2021 - Present | Django, Python, Javascript

- Added multiple intelligence features by using **NLP and ML techniques** across products leading to effective results whilst integrating features to the backend system in **Django**.
- Ensured functionalities remain stable for release by integrating **Google Cloud Platform**.
- Improved and debugged the current frontend of products using **HTML/CSS along with Angular.js Framework**, leading to a seamless interface.

### STOPSTALK APP | FLUTTER DEVELOPER

November 2020 - May 2021 | Flutter, Web2py | [GitHub](#)

- Collaborated with the popular Sport Programming website -StopStalk , to **publish a dynamic multi-functional cross-platform application** on the **Google Play Store**.
- Developed multiple dynamic screens with **real time JSON data updates** including the recommendations screens and the searching/adding friends screen whilst creating various reusable components throughout the application with **excellent UI/UX**.

## PROJECTS

### TECHNICAL INDICATORS METRIC | FINANCIAL ANALYSIS PROJECT

April 2021 - Present | Python, Excel

- Studying and Analysing various **technical Indicators** and applying various **quantitative techniques** including ML applications to define metrics for prediction of markets.
- Implementing window of profit/loss and calculating total profit/loss over a period of time to judge algorithm's efficiency.

### SEQUENTIAL FEATURE SELECTION | ML COURSE PROJECT

December 2020 - January 2021 | Python, Scikit-Learn | [GitHub](#)

- In-depth research followed by **analytical and quantitative comparison** between different **Bayesian Network Classifiers** and **K-NN Classifiers**.
- Self-implementation of said classifiers using Sequential Feature Selection.

### POWERBANK RENTAL SYSTEM | ENGINEERING DESIGN PROJECT

September 2019 - July 2020 | Solidworks, Flutter, Arduino | [Drive](#)

- **Led a team of 8 members** to conceptualise and work on a complete rental system for power banks(similar to Yulu in concept) and prepared the **preliminary business model**.
- Implemented a **visual 3D render using Solidworks** for the hardware components and draughted a mobile application for the entire system.

## ACHIEVEMENTS

2021 **Department Rank-1** of Mechanical branch across 4 semesters

2021 Only student to receive **A (Outstanding)** out of 125+ in **Data Structures and Algorithms**

2020 **2nd place** in **Institute Summer Challenge** on a research paper on WASH

2019 **JEE-19**: Among top 0.6% percentile of 1.3 million Applicants in JEE- 2019

2019 **12th HSC**: Top 1% of Maharashtra HSC examination

## POSITIONS OF RESPONSIBILITY

2021-Present

**Overall Head** of the **Entrepreneurship Cell**, IIT Jodhpur for the year 2021

2020-Present

**Student Guide** of the **Student Wellbeing Committee**, IIT Jodhpur

## EXTRACURRICULAR

**Core Member**, **DevUp Labs** an open-source organisation of IIT Jodhpur.

Represented IIT J in the **Quizzing Team** and **Parliamentary Debate** at the Inter-IIT Cult. Meet. **Quiz Club Moderator** for 2020-21, having won several college-level Quizzes.

**Hosted** several events including Ignus, IIT J's Cultural fest and Spandan the Intra-College fest.

A member of IIT Jodhpur's **Table-Tennis** team