

Harsh Kankrecha

Indian Institute of Technology Goa

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Third Year **Undergraduate, Computer Science Engineering**
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EDUCATION:

BTech, Computer Science Engineering: Indian Institute of Technology Goa	CPI: 7.51/10	2020-Present
Class 12, CBSE: New Tulip International School,	Aggregate: 92.4%	2019 – 2020
Class 10, CBSE: Podar International School, Junagadh	Aggregate: 96.2%	2017-2018

PROJECTS:

ONLINE-JUDGE | REMOTE CODE EXECUTION PLATFORM

- Built an online remote code execution platform that takes the code from the user and runs against a problem having predefined test cases and judges if the given code is correct or wrong.
- Implemented using **PYTHON** and **DJANGO** framework. It provides features like tracking the progress of a user by maintaining a leader board, accepting the files from the user as input and running against various test cases, etc.
- Built a strong authentication system using django's **AUTHENTICATE** library which can handle the *Sign in* option with username and password for the registered users and *Register* option for the new users.
- Containerized this django app with **DOCKER** to improve agility, portability and scalability of the app.
- A single server can handle up to 500 users contest with **HORIZONTAL SCALING**.

ONLINE PYTHON IDE

- Built an Online IDE where a user can submit or write python code, execute it and get the desired output in the output panel. It also provides the feature of giving input to the code from a separate input panel.
- Implemented using **PYTHON & DJANGO** framework. It provides features like user input, error handling and showing it in the output.

CALCULATOR WITH GUI

- Built a calculator with **GUI** that can perform arithmetic operations like add, subtract, multiply, divide, square root and square.
- Implemented using **PYTHON** and **OBJECT-ORIENTED-PROGRAMMING**. It performs arithmetic operations, shows calculations previously done, follows proper preference of the arithmetic operators in the calculation, etc.
- Used python's **TKINTER** library for building the display of the calculator which includes output screen, buttons for input from the user.

SKILLS:

LANGUAGES: Data Structures and Algorithms, Python and OOP's, C++, C, HTML, CSS, Javascript, Bootstrap.

WEB FRAMEWORK: Django **OTHERS:** Docker, Numpy, Pandas, Tkinter

ACHIEVEMENTS:

- Obtained AIR 19 in KIDOVATORS INNOVATIVE CHALLENGE, by SBI
- Obtained AIR 4271/250000 in JEE ADVANCED
- Obtained State rank 3/5000 twice in International Olympiad of Science, by Silverzone.
- Certification in Cloud Computing by Google
<https://drive.google.com/file/d/1B3Y9XgzPh5ZUk1ynUnZUTYT3r7NDipFa/view?usp=sharing>
- Certified in Python & Object-Oriented-Programming by NxtWave <https://10xiitian.ccbp.in/certificate/DLIXTLFFKA>
- Certified in Data Structures and Algorithms by NxtWave. <https://10xiitian.ccbp.in/certificate/OCMDSMIEAQ>
- Solved 800+ problems on various online coding platforms like codeforces, leetcode, codechef, etc.