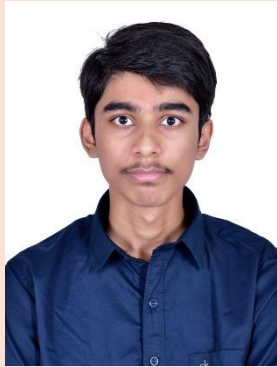


# STUDENT PORTFOLIO



**Name:** PYNENI SATHVIK

**Register Number:** RA2311047010066

**Mail ID:** sp2817@srmist.edu.in

**Department:** CINTEL

**Year / Sem/ Section:** 2/3/AI-B

**Subject Title:** 21CSC201J Data Structures and Algorithms

**Handled By:** Dr. Meghana Sahu

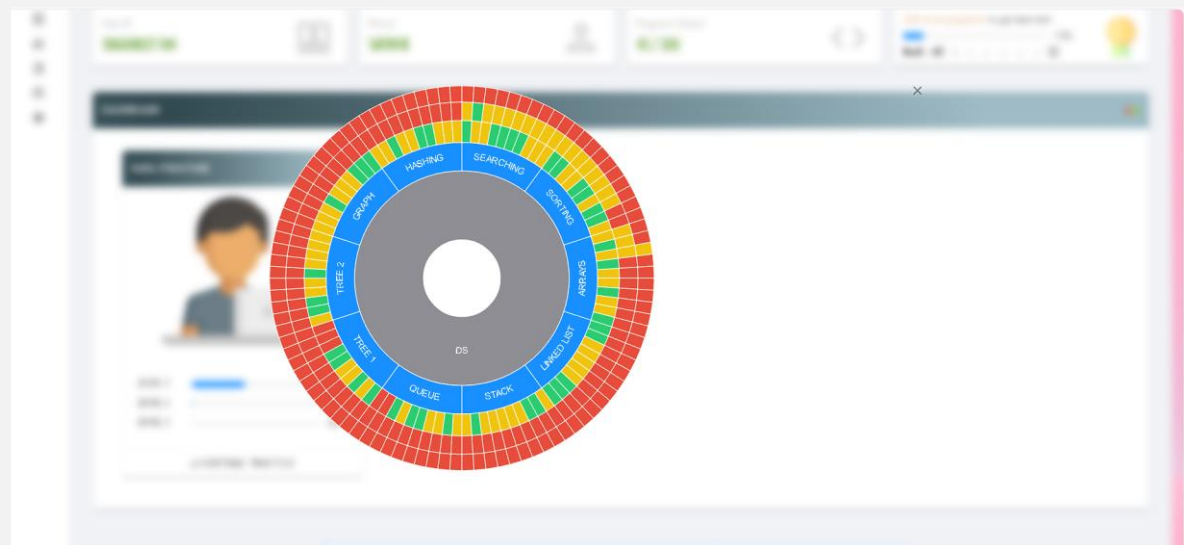
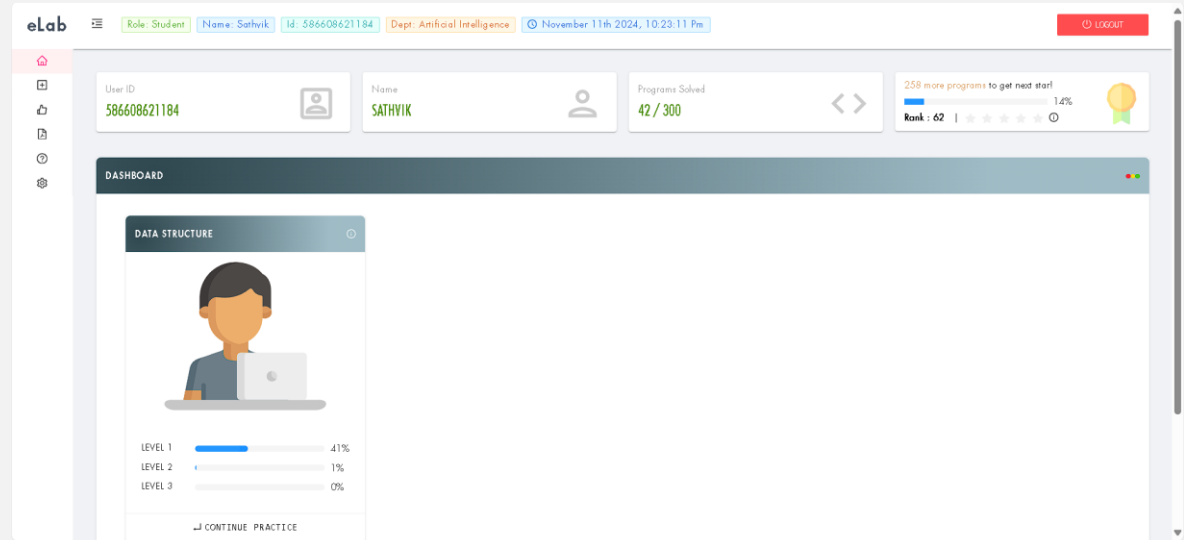
**Email:**

**LinkedIn:** [https://www.linkedin.com/in/sathvik-pyneni-6329b928a?utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=android\\_app](https://www.linkedin.com/in/sathvik-pyneni-6329b928a?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)

**GitHub:** [github.com/](https://github.com/)

## ELab Completion Status

I have attempted all the types of questions from all the types of levels and have faced a lot of errors in the medium and hard level but have still implemented few codes with errors and gained knowledge.





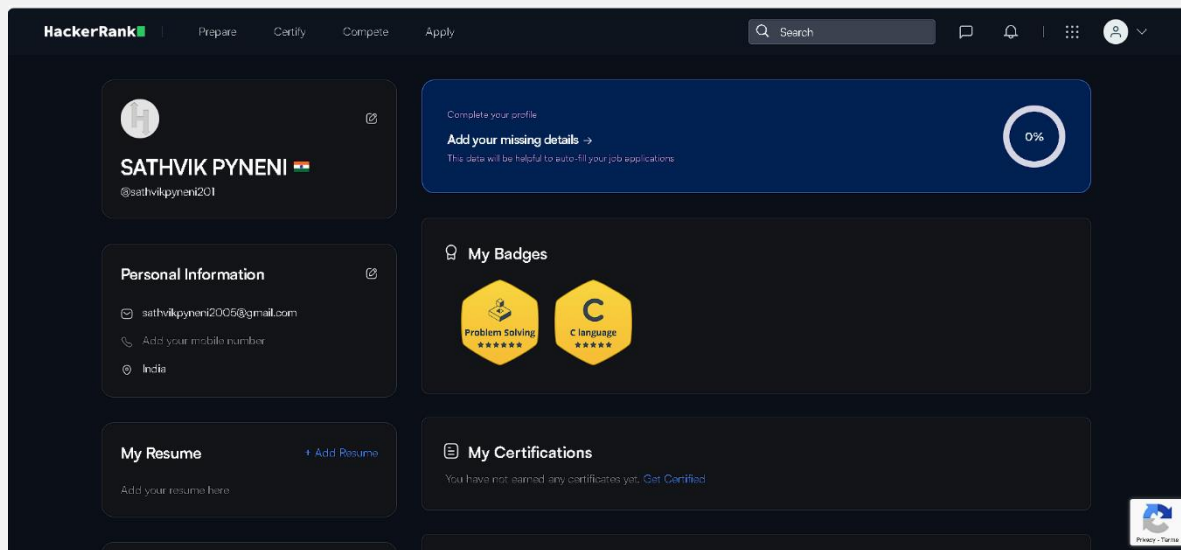
## **SOLVED REAL WORLD PROBLEM / CONCEPTUAL TASK**

This project focuses on effective event scheduling and conflict detection using advanced data structures and algorithms. Emphasizing productivity and time management, it includes data structures like arrays, linked lists, and binary trees for efficient event representation, along with conflict detection algorithms such as brute force, interval trees, and sweeping line methods. Implemented in C, the system features a user-friendly interface, automatic conflict checking, and customizable scheduling constraints. Future directions propose integration with calendar services, mobile support, and AI-driven recommendations for enhanced, streamlined scheduling.

**<https://docs.google.com/presentation/d/11kyEI6W-swH7HNdpVSziFCjB-KYVs1NQ/edit?usp=sharing&ouid=101642378649941383047&rtpof=true&sd=true>**

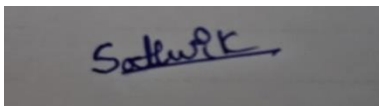
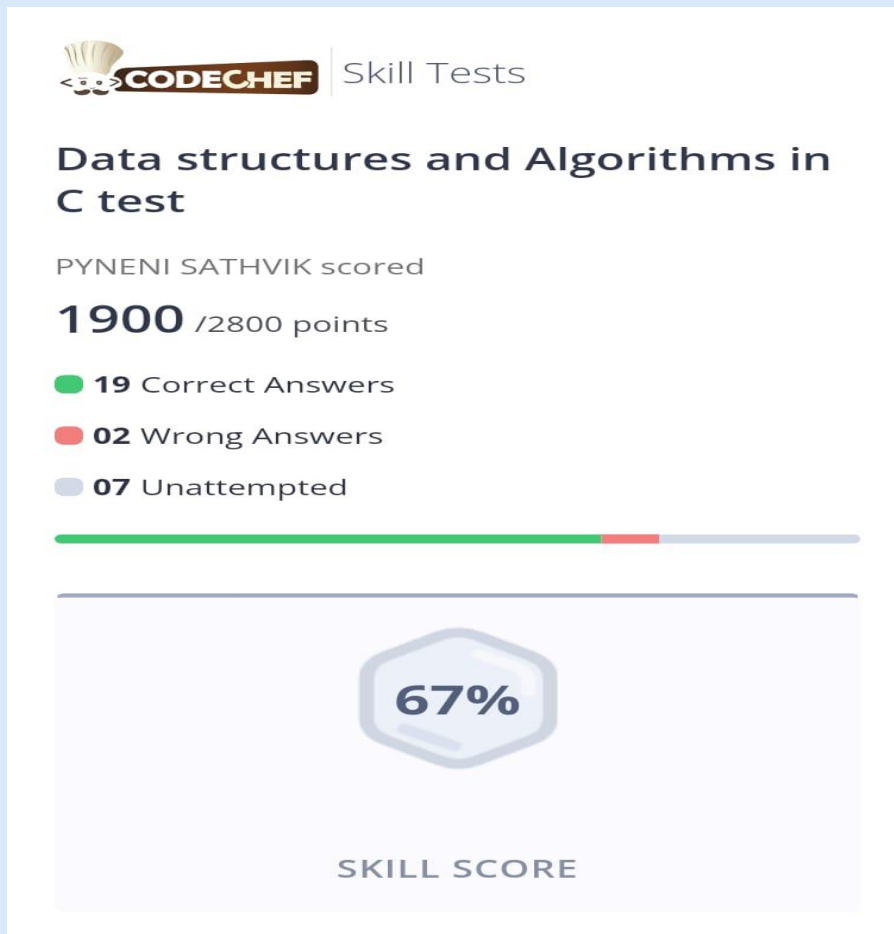
## NPTEL/HOTS QUESTIONS SOLUTION

I have attempted Hots questions from hackerrank website in many different levels for the past few weeks in various topics like trees and in various different levels like easy,medium,hard.



## CODING COMPETITIONS

Any notable rankings or achievements in coding contests  
(e.g., LeetCode, CodeChef, HackerRank, Codeforces, ICPC)



Signature of the Student