

# Koushik Roy

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## Projects

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### SmartCare HMS

### Final Year Project (Ongoing)

The SmartCare HMS is a comprehensive web-based **Hospital Management System** integrated with an AI-powered MediBot.

- Reduced early-stage diagnostic guesswork through AI-based symptom analysis, implemented automated patient triage to reduce administrative workload, and streamlined hospital operations including patient records, appointments, and doctor management.

**Technologies:** HTML, Tailwind CSS, JavaScript, MySQL, Django, Python, TensorFlow (NLP), Authentication, HTTPS, Web Server & Hosting Platform.

### ACM Tracker (Github)

### Academic Project

ACM Tracker is a web-based application designed to facilitate team formation for ACM competitions using Codeforces rankings.

- Allows competitors to view individual rankings and automatically generated team information, simplifying team selection by leveraging real-time Codeforces performance data.

**Technologies:** HTML, CSS, JavaScript, PHP, MySQL

### Prottoy (Live\_link)

### Innovation Competition Project

Prottoy is a unified digital marketplace that connects organic and bio-fertilizer producers directly with farmers.

- Addresses market access and scalability challenges for small-scale producers by enabling direct communication and transactions with farmers.

**Technologies:** HTML, CSS, JavaScript, PHP

## SKILLS

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- **Programming Languages:** C, C++, Java, Python
- **Machine Learning:** Scikit-learn, Pandas, NumPy
- **Web and Database:** HTML, CSS, JavaScript, MySQL, Django, React
- **Tools:** Git, GitHub

## COMPETITIVE PROGRAMMING PROFILE

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- Codeforces: **Koushik79**(Max Rating: 1309, Best Rank: 2823 Worldwide, Problems Solved: 1100+).
- CodeChef: **Koushik032**(Max Rating: 1636, Best Rank: 142 Worldwide, Problems Solved: 300+).
- LeetCode: **Koushik032**(Problems Solved: 300+).
- Other Platforms: **Atcoder\_Koushik032**, **Vjudge\_Koushik032**, **CSES\_Koushik031**

## ACHIEVEMENTS

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- NCPG Preliminary Contest, 2023 (**Rank:** 211 among 1100 teams, Team name: MU\_Oshomapto)
- NCPG Onsite Contest, 2023 (**Rank:** 166 among 300 teams, Team name: MU\_Oshomapto)
- Intra MU Programming Contest, 2023 (**Rank:** 5th among 150 participants, Individual Contest)