

Md Aakib Alam Ansari

Final Year Undergraduate

Dept. of Mathematics & Scientific Computing

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EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution
2020 - 2024 (Expected)	BS, MTH	Indian Institute of Technology, Kanpur
2018 - 2020	BSEB - XII	Patna Muslim High School, Patna
2016 - 2018	AMU - X	Saiyyid Hamid Senior Secondary School, Aligarh

ACHIEVEMENTS

- AIR 2884, JEE Adv. 2020 (among 200000 candidate)
- AIR 2727, JEE Main 2020 (among 1200000 candidate)
- Among National Top 1% out of 50k in NSEJS 2018
- Candidate Master** - Codeforces [handle: sultan...]
- 5 ☆ - Codechef [temp0rary] (among top 0.5% Indians)

WORK EXPERIENCE

YUBI | Software Engineer *Chennai, India*
Summer Intern *May'23-July'23*

- Collaborated with the platform team to create an application for implementing an RBAC (Role-Based Access Control) model.
- Employed the Spring Boot framework and PostgreSQL to replicate relationships among products, entities, users, resources and roles.
- Created diverse APIs within Spring Boot, incorporating SQL queries to facilitate seamless interaction between clients and the database.
- Conducted thorough testing of the developed code using tools such as Postman for API testing and pgAdmin4 for efficient database management.

MISCELLANEOUS

- With a team of 6 members, we got **1st** position in technical event Techweek organised by Science & Technology Council IITK in 1st year, competing with 100+ teams.
- Senior Executive** in Events team, Udghosh'22, Coordinated various events with a team of 20 individuals
- Certified **Blue Belt** by Uttar Pradesh Taekwondo Association (UPTA). Secured a bronze medal in the Poomsae event at Udshosh'23 Taekwondo competition
- Secured Institute rank 2 and Global rank 22 in Inter-IIT CP contest hosted by IIT Gandhinagar held at Codechef

RELEVANT COURSES

Fundamentals of Computing
Data Structures & Algorithms
Database Management System

Computer Programming
Advanced Algorithms
Set Theory and Logic


Probability & Statistics
Randomized Algorithms
Numerical Analysis-I

Modern Cryptology
Operating System
Numerical Analysis-II


PROJECTS

Codeforces Submission Scraping 
Self Project *Nov'23-Dec'23*

- Developed a solution to scrape Codeforces submissions made by friends in the past 24 hours
- Utilized Selenium library in Python for web scraping
- Implemented the Sendgrid API to facilitate the sending of emails containing submission details

Movie Recommendation System 
Self Project *Jan'23-Mar'23*

- The system suggests movies more likely to be enjoyed based on user input or selected genre
- Applying TF-IDF Vectorizer for text analysis
- Utilized Cosine Similarity for recommendations and SQLAlchemy for database management
- Developed webapp with Flask, HTML, CSS & JS

Breaking Cryptosystems 
Prof. Manindra Agrawal *Jan'23-Apr'23*

- Analyzed and implemented cipher algorithms like DES, AES, RSA, and SHA3, using C++
- Discovered hidden keys through cryptanalysis for various ciphers

Connecting The First Search 
Stamatics Society, IITK *Apr'22-Jun'22*

- Focused on Graph Algorithms based on (dfs/bfs)
- Learned Shortest Path, Cycle-detection, Bridge-finding and MST algorithms

SKILLS

Proficient: Java, Javascript, SQL

Experienced: C/C++, Python

Exposure: R, Golang, Matlab

Utilities: Shell Utilities, Git, STL, Springboot, Postman, MongoDB, PostgreSQL, Flask, React, L^AT_EX