Om Khangat

Roll No.: IIT2021218
B.Tech - Information Technology
Indian Institute Of Information Technology, Allahabad

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EDUCATION

- **Indian Institute of Information Technology, Allahabad** — *December 2021 - Present*
  Bachelor of Technology in Information Technology; GPA: 8.30 — Prayagraj, India
- **Sanskar Public School** — *July 2018 - March 2020*
  Central Board of Secondary Education (Class XII); Percentage: 91.60 — Gwalior, M.P.
- **Jai Academy** — *July 2017 - Match 2018*
  Central Board of Secondary Education (Class X); Percentage: 94.80 — Jhansi, U.P.

EXPERIENCE

- **TutorBin** — *January 2024 - May 2024*
  Problem-Setter — Remote
  – Created 100+ problems in C++ programming language for online courses and assessments which allowed me to refine my programming skills and helped up-scale my understanding in Data Structures and Algorithms.

PROJECTS

- **"Binary Prediction of Smoker Status using Bio-Signals And Classify Extent of Smoking"**
  – **Research Work**⚙ under **Prof. Pritish Varadwaj** (**Patent Pending**), engineered a high-performance binary classification model for smoker status prediction, leveraging advanced machine learning techniques including Logistic Regression, Random Forest, Light-GBM, and Neural Networks.
  – Optimized model performance through rigorous comparative analysis, achieving 91% accuracy with Neural Network implementation(ANN). Further enhanced healthcare decision support by developing a clustering algorithm like Fuzzy C-Means to stratify smokers into risk categories, demonstrating strong potential for personalized intervention strategies.

- **MedEase** — *Website* ⚙
  Tech stacks : Node.js, Express, MongoDB, Socket.IO, WebRTC
  – Developed **appointment scheduling system** enabling users to schedule and manage appointments with doctors. Created an admin panel for managing doctor registrations and the approval process. Integrated **WebRTC** for virtual sessions with doctors using peer to peer connection

- **CodeLink**
  Tech stacks : Node.js, Express, ReactJs, Socket.IO, CodeMirror
  – Developed real time collaborative code editor using CodeMirror, Ensuring security through Private Rooms seamless integration of a Chat System.

SKILLS

- **Programming Languages.**: C/C++, JavaScript, Python
- **DB, Frameworks**: NodeJs, ExpressJs, MongoDb, SQL
- **Subjects**: Data Structures & Algorithm, DataBase Management System(DBMS), Object Oriented Programming(OOPs), Operating system, Machine Learning.
- **Tools**: Github, VS Code, Jupyter, Google Colab

ACHIEVEMENTS

- Achieved **1828 (Expert)** on **CODEFORCES** ⚙, **2050 (5 star)** on **CODECHEF** ⚙.
- Garnered **70000+** Score on **Interview Bit.**⚙
- Secured Rank #**19** , #**28** and #**70** in Starters 112, 104 and 143 of Codechef correspondingly.
- Secured Rank #**147**,#**276** and #**467** in Codeforces Round 855, 870 and 931 respectively.
- Solved More than **1000+** Problems of DSA on various Platforms like Leetcode, GFG .
- Qualified KVPY SA with AIR 378 in September 2019.
- Secured All India Rank #**4994** in JEE Mains February 2021 and All India Rank #**6286** in JEE Advanced August 2021.

POSITIONS OF RESPONSIBILITY

- **President**, **Students' Gymkhana**, IIIT Allahabad — *May 2024- Present*
  Leader and Representative of the **Student Council, IIIT Allahabad**:
  – Organized and chaired the Board for three major annual festivals:
    * Effervescence '24 (cultural): 10,000+ attendees
    * Asmita '24 (sports): 2,000+ participants across 15+ events
    * Aparoksha '24 (technical): 5,000+ attendees

- **Technical Secretary**, **Students' Gymkhana**, IIIT Allahabad — *May 2023 - May 2024*
  – Managed the Functioning of the Technical Societies of the college like **GeekHaven**, **Google Developer Students' Club** with overall team size of over more than 200 students also organised **Hackout'23, OpenCode'23**.