

## SARTHAK SACHDEV

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Roll No: 2K21/ME/247

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[LeetCode Profile](#)

[Portfolio Website](#)

[Certifications](#)

### EDUCATION

B.Tech Mechanical Engineering	Delhi Technological University	(2021-25)	SGPA= 8.62
Matriculation(2019) and Higher Secondary(2021)	DPS, Dwarka	94.6% and 92.6% respectively	

### WORK EXPERIENCE

#### App development intern, Maruti Suzuki India Limited (June 2024- July 2024)

- Worked on **3 apps** using the tech stack of **React Native, Expo, Redux** and **Firebase**, enhancing app performance and features.
- Improved **operational speed** of the team by **20%** by generating interactive frontends and efficient backend API integration.
- Participated in debugging & brainstorming sessions and proposed solutions to improve **work efficiency of our team** by **12%**.

#### Research Intern, Netaji Subhas University of Technology (July 2024- Sept 2024)

- Achieved **98% accuracy** in **cancer detection** in CT scan images by doing tumor segmentation using **U-Net** architecture in **Python**.
- Gained a **25% boost** in feature extraction by **CT scan data preprocessing** using **Python, openCV, tensorflow** using **ImageJ**.
- Enhanced **diagnostic** and **classification precision** by **38%** of DLM by using image augmentation, segmentation and masking.

#### ML engineer, Power Finance Corporation Ltd (Oct 2024- Present)

- Developed **AI-driven chatbots** using **NLP** and **sentiment analysis** in Python, enhancing **customer support efficiency** by **60%**.
- Assisted to integrate the chatbot in the existing architecture of **Oracle database**, improving **AI response accuracy** by **20%**.
- Implemented **Dialogflow**, leading to **decreased development time** by **30%**, better scalability and a multi-language support .

### PROJECTS

#### Eureka, an Artificial Intelligence based automated Travel Planner application ([Source code](#)) (Aug 2024)

- Developed in **React Native** with **Firebase Auth** and **Gemini API**, achieving **90% user satisfaction rate** with customized plans.
- Reduced **loading times** by **15%** by using **Firebase auth** and **implemented cross-platform availability** using **Expo Router**.
- Used **Gemini** for AI-driven travel recommendations, enhancing **response accuracy** by **35%**, resulting in higher user retention.

#### SurgiPlan PRO- India's first "Operation Time Table" building application ([Source code](#) | [Link](#)) (July 2024)

- Successfully built the app using **MERN stack** by collaborating with a team of **6 trained medical professionals** and doctors.
- Boosted **operational efficiency** by **40%** through surgical scheduling optimization using **priority queue** based sort algorithm.
- Created mobile app with **React Native & Expo** for patients login, **reducing surgery delays** by **80%** and improving accessibility.

### POSITIONS OF RESPONSIBILITY

#### President, GirlUp DTU (United Nations organization) (January 2024 - Present)

- Mentored over **100 individuals** in **Web Dev** and **DSA** for **6 months**, assisting in the creation of the **official GirlUp DTU website**.
- Hosted annual flagship event GirlUp Summit, rallying **500+ participants** to raise **₹45,000+** for NGO "**Go Girl Organisation**".
- Amplified Instagram engagement**, fostering a community of over **800 active users** through content and design initiatives.

#### Co-founder and Treasurer, International Finance Student Association, DTU (Dec 2023 - Present)

- Co-founded IFSA DTU, establishing it as a major chapter in IFSA international network, **serving 800+ students** across DTU.
- Giving members **hands-on experience** with **AI-driven analytics** on real-time data, **enhancing practical learning** by **70%**.
- Organized workshops, spearheaded partnerships, authored many articles to **improve IFSA DTU's digital presence** by **80%**.

#### Junior Manager for Outgoing Social Sector, AIESEC in Delhi University (July 2023- Feb 2024)

- Led **team of 60+ members** to organize 2 events as **committee Vice President**, improving the **semi-annual profits** by **32%**.
- Used **Excel** to boost in **sales** by **14%** by performing data analytics, sales prediction, finance management of the organization.
- Onboarded 3 major sponsors**, enhancing event funding and boosted attendee satisfaction by efficiently managing events.

### ACADEMIC ACHIEVEMENTS AND AWARDS

- Secured a peak **LeetCode rating** of **1770** and a peak **CodeChef rating** of **1563** showcasing competitive programming proficiency.
- Achieved **2nd and 3rd position** in **LHMC Annual Hackathon** in 2022 and 2023 for working to improve the medical sector of India.
- Represented my college** at **IIT Roorkee** and successfully achieved the **finalist position** in **CyberSprint hackathon** in **April 2023**.
- Earned a **global rank of 134** and **global rank 196** in Aug 2023 coding contest on **HackerEarth** & Aug 2024 contest on **CodeChef**.

### TECHNICAL SKILLS

Proficient in C++, Python, JS, TypeScript

AWS, Git, Docker, Kubernetes, SQL, Tableau

React Native, MERN, NextJS, Expo, TailwindCSS, Socket.IO

### EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Garnered over **7.6K active organic followers** on **LinkedIn** by posting tech-based content, providing valuable insights for users.
- Achieved **3 medals of merit consecutively** in **NSO and IMO olympiads** from 2018-21 with **international rank 31** in NSO 2019.
- 2 times consecutive silver medalist** in the **Delhi Zonal Table Tennis Championship** in 2017 and 2018 in the sub-junior category.