

# Arpan

+91 9896897266 | [arpanmehta05@gmail.com](mailto:arpanmehta05@gmail.com) | [linkedin.com](https://www.linkedin.com) | [github.com](https://github.com)

## EDUCATION

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### Chitkara University

Bachelor of Engineering Computer Science, **GPA:9.60**

Aug. 2023 – May 2027

### Govt. Model Sanskriti Senior Secondary School

10+2 Non-Medical, **Percentage:84.8**

2022 – 2023

## EXPERIENCE

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### Open Source Chandigarh | DSA Team Member

- Actively contributing to the Open Source Chandigarh community, focusing on Data Structures & Algorithms (DSA).
- Collaborated with other developers to solve algorithmic challenges, enhancing problem-solving skills and efficiency.
- Engaged in community discussions, helping peers with JavaScript, React and DSA related queries to foster collaborative learning.

## PROJECTS

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### AiChess | MERN Stack, Socket.io, Stockfish Engine, MongoDB

[Git-Hub-Link](#)

- Developed a comprehensive real-time chess platform using MERN stack with Socket.io for multiplayer gameplay, JWT authentication, and role-based access control for Players and Admins
- Integrated Stockfish chess engine with customizable difficulty levels (1-25 depth) for AI gameplay, featuring game analysis, tactical hints, move validation, and PGN/FEN notation support
- Built real-time multiplayer system with ELO rating calculations, matchmaking queue, live chat, game replay functionality, and comprehensive admin dashboard with user management and analytics

### Euphoria | MERN Stack, Gemini Api, Oauth, Azure

[Git-Hub-Link](#)

- Developed a MERN-based personality assessment platform integrating MBTI and PERMA models with secure JWT authentication, guest testing, and Gemini API OAuth for seamless login.
- Deployed the full-stack application on **Microsoft Azure**, ensuring high availability and scalable performance.
- Built a Gemini-powered AI chatbot that delivers personalized psychological insights using context-aware analysis of user test results and conversation history.
- Designed an admin dashboard with dynamic question management, user analytics, activity logs, and optimized backend architecture ensuring scalability, security, and efficient data flow.

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, JavaScript, SQL, C++

**Web Development:** HTML, React.js, Tailwind CSS, Node.js, Express.js

**Databases:** MongoDB, PostgreSQL

**Tools & Technologies:** Git, GitHub, VS Code, Postman, Docker Desktop, MongoDB Compass, Google AI Studio(Gemini API)

**Software Development Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), SDLC

**Authentication & Security:** JWT Authentication, OAuth

**Cloud & DevOps:** Microsoft Azure, AWS, GitHub Actions, Docker

**Soft Skills:** Problem Solving, Teamwork, Adaptability, Communication, Time Management, Attention to Detail

## Honors & Certificates

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**Dean's List Awardee** – Achieved academic excellence by securing a position in the department for [Second Semester – 2023].

**Postman API Fundamentals** – Student Expert

**Google Cloud Gen AI Academy** – Completion Certificate