

ARNAV JOSHI

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Innovative and results-driven Information Technology student with a strong foundation in software development, cloud computing, artificial intelligence, and competitive coding. Passionate about building scalable solutions, leveraging machine learning, and optimizing backend architectures. Adept at leading teams, solving complex problems, and adapting quickly to new challenges. Seeking opportunities to contribute technical expertise and leadership skills in dynamic environments.

EDUCATION

B.Tech in Information Technology

2023-(Expected)2027

Shri Ramdeobaba College of Engineering and Management

CGPA~9

SKILLS

- Critical Thinking & Problem-Solving
 - Leadership & Team Collaboration
 - Strong Communication & Public Speaking
 - Adaptability & Quick Learning
 - Project Management & Time Efficiency
 - Creativity & Innovative Thinking
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PROJECTS

- **Infinity Quest**
 - Developed a top-down retro adventure game using JavaScript, Tiled, and PNG assets. Designed 64x64 tile-based environments, integrated collision detection, enemy AI, and interactive elements, resulting in a smooth and engaging user experience.
 - **Blockchain Transaction System**
 - Engineered a secure transaction validation system using Python and Flask, optimizing processing time by 30% and ensuring immutable transaction storage.
 - **AI-Powered Microplastic & Water Pollutant Detection**
 - Leveraged Machine Learning (TensorFlow, OpenCV) to develop an AI-driven real-time microplastic detection system, increasing accuracy by 15%.
 - **E-Commerce Platform for NGO Clothing Donations**
 - Built a React, Firebase, and Node.js-based platform to facilitate NGO clothing donations and corporate brand partnerships, reducing textile waste.
 - **Flask Chatbot with Hugging Face AI**
 - Designed an intelligent chatbot using Flask and NLP models, incorporating sentiment analysis for enhanced user interactions.
 - **Live Scoreboard with Backend**
 - Developed a real-time scoreboard system using Node.js and Firebase, improving backend performance by 40% and ensuring seamless updates.
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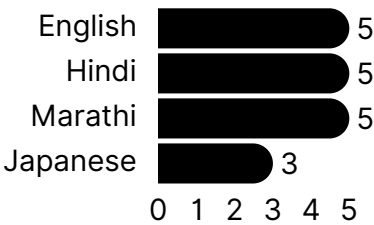
WORK & LEADERSHIP EXPERIENCE

- Colosseum 15.0 - **Technical CoHead**
 - Led a team of 5+ developers, creating the official event website with 2,000+ visitors.
 - Developed a top-down retro game for enhanced participant engagement.
 - Optimized backend services, reducing response time.
- CompEx 2025 – **Tech Intern**
 - Managed technical setup, event coordination, and troubleshooting for gaming competitions.
 - Designed a real-time scoreboard with Firebase, ensuring seamless live updates.
- Rotaract Club – **Technical Coordinator**
 - Directed community development initiatives and managed technical event logistics.
 - Organized events fostering teamwork, leadership, and problem-solving.

TECH STACK

- **Programming Languages:**
 - JavaScript, Python, C, Java
- **Frontend Development:**
 - HTML, CSS, React, Next.js
- **Backend Development:**
 - Node.js, Express, Flask
- **Database & Storage:**
 - MongoDB, SQL, Firebase
- **Machine Learning & AI:**
 - TensorFlow, OpenCV, Hugging Face
- **Cloud Computing & System Design:**
 - Azure Virtual Machines, Blob Storage, API Architecture, Scalability
- **Cybersecurity & Blockchain:**
 - Smart Contracts, Secure Transaction Systems
- **Competitive Coding & DSA:**
 - 100+ problems on LeetCode, Codeforces; Google Kick Start, CodeJam, CodeChef
- **Version Control:**
 - Git, GitHub
- **Game Development Tools:**
 - Tiled, Phaser.js

LANGUAGES



HOBBIES

- Technology & Development:
 - AI/ML Research, Cybersecurity, Open-Source Contributions
- Gaming & Tech:
 - Video Games, Game Development, Competitive Coding
- Entertainment & Media:
 - Anime, TV Shows, Movies, Documentaries, Music, Reading
- Outdoor & Active:
 - Cycling, Riding, Hiking, Exploring