

MOHD HAMZA ARSHAD

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Education

University of Mumbai

Bachelor of Technology in Electronics and Computer Science

June 2023 – June 2027

Mumbai, India

Relevant Coursework

- Data Structures
- Algorithms
- Artificial Intelligence
- Programming Languages
- Digital Electronics
- Database Management
- Microprocessors
- Electrical Circuit Design

Experience

Chegg

Feb 2024 – Present

Subject Matter Expert | Computer Science

Mumbai, India

- Crafted **detailed solutions** for complex programming assignments, improving clarity and accuracy, which led to a **Quality Score of 4.2/5** based on Chegg rating.
- Maintaining a high satisfaction rating of 100% based on student feedback, demonstrating excellence in knowledge delivery and problem-solving.
- Engaged in continuous research to stay current with industry trends and cutting-edge technologies, ensuring quality and relevance in solutions provided.

CodSoft

Dec 2023 – Jan 2024

Web Development Intern

Mumbai, India

- Built a responsive portfolio website, highlighting technical skills in front-end development. Leveraged HTML, CSS, JavaScript, and Bootstrap to design a user-friendly interface, achieving a load time of under **2 seconds**.
- Developed an SEO-optimized landing page, increasing visitor retention by **20%** with a clean, engaging design.
- Reduced bugs by **15%** through thorough testing for cross-browser compatibility.

Projects

Interactive Air Quality Heatmap

Oct 2024 – Present

Web Development Project | Collaboration with IIT Tirupati M.Tech Students

Mumbai, India

- Developed an interactive heatmap web application displaying PM concentration levels for **100+ Indian cities** based on real-time **CPCB (Central Pollution Control Board) data**.
- Engineered a **responsive interface** that makes air quality data accessible on both desktop and mobile devices, making the tool widely usable across various demographics and regions.
- Employed **Leaflet.js** for map visualization, achieving an **average load time of 1.5 seconds** for seamless user experience.
- Implemented Government-validated data sourced from the Central Pollution Control Board (CPCB), achieving 98% accuracy in air quality readings, thereby establishing the project as a credible resource for public health officials and researchers.
- Increased the visibility of city-specific pollution data by implementing **color-coded markers** that simplify data interpretation for general users.

Technical Skills

Languages: Python, Java, C, C++, Embedded Systems Development, Web Development, MATLAB

Developer Tools: Computer-Aided Design (CAD), Visual Studio, Simulink

Technologies/Frameworks: Git, GitHub, Data Analysis, Machine Learning, Artificial Intelligence

Soft Skills: Teamwork, Communication skills

Extracurricular

Community Health and Support Initiative (CHSI)

Aug 2024 – Oct 2024

Anjuman Charitable Trust | Volunteer and Organizer

Mumbai, India

- Coordinated and distributed care kits with hygiene and first-aid supplies to 20+ underprivileged families in collaboration with the Anjuman Charitable Trust.
- Organized an outreach campaign, reaching 200+ local residents to increase awareness of available healthcare services, enhancing public engagement and resource utilization.
- Participated in **beach cleanup drives**, helping to remove over **50 Kg of waste** and contributing to the preservation of local natural habitats.