SOHAM ATHAVALE

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EDUCATION

Rajiv Gandhi Institute of Technology, Mumbai University — Andheri West, Mumbai, India
Bachelor of Engineering, Computer Engineering — **December 2021 – May 2025**
- CGPA – 8.15/10 (till 6th Semester)

Sathaye College — Parle East, Mumbai, India
- XII Grade – Grade-85% — **July 2020 – August 2021**

Parle Tilak Vidyalaya — Parle East, Mumbai, India
- X Grade – Grade – 90.67% — **April 2018 – May 2019**

SKILLS

Programming Languages: Java, Python
Web Development: HTML, CSS, Tailwind CSS, JS, ReactJS
Database: SQL, MongoDB
Data Visualization: Python
Cloud Technologies: AWS EC2, AWS S3
Developer Tools: Git/GitHub, VSCode

PROJECTS

Air Quality Prediction and Mitigation Using ML and IOT | *Python, C, HTML, CSS, JS* | Visit — **July 2023 - May 2024**
- Predicted future AQI levels based on historical data using a machine learning model.
- Integrated live data from an IoT-based Arduino device to feed into the model, predicting future AQI levels and recommending solutions to reduce pollution.

Cloud File Storage Platform Using S3| *HTML, CSS, JS, AWS EC2, AWS S3* — **February 2024 - March 2024**
- Developed a cloud-based file storage system using AWS S3, enabling secure upload, delete, and download actions.
- Utilized AWS SDK for backend authentication and authorization to manage user access and handle requests.

Restaurant Web Application | *HTML, CSS, PHP, SQL* — **July 2022-March 2023**
- Developed a web application that allows customers to create accounts, book tables, and order food online or in advance for dine-in.
- Designed an intuitive and attractive user interface to enhance the customer experience.
- Used SQL for handling sign-up and login functionalities.

RESEARCH EXPERIENCE

Department of Computer Engineering, Rajiv Gandhi Institute of Technology — Mumbai, India
Research Student — **August 2023 – December 2023**
- Published the research paper - "**Air Quality Prediction Using Machine Learning: A Comparative Study**".
- Addressed the critical issue of air pollution, focusing on analysing patterns and extent in India.
- Applied machine learning techniques including Linear Regression, K Nearest Neighbour, and Decision Tree algorithms getting 99.93% accuracy while using K Nearest Neighbour Algorithm to predict air quality based on historical data from major Indian cities.
- Paper Link: **Visit IEEE Paper**

ACADEMIC/EXTRACURRICULAR ACHIEVEMENTS

General Secretary, E-Cell RGIT — **July 2023 – May 2024**
- Lead the E-Cell Team managing the general affairs of the committee, ensuring maximized coordination between different teams, handling all social media handles of E-Cell, RGIT. Managed the budget for the year 2023-24. Played a crucial role in creating engaging posts regarding events, seminars, monitoring and bettering social media engagement and other metrics, managing the E-Cell community on WhatsApp and Discord.

AIKTC Hackathon — **4 March 2023**
- Participated in **AIKTC Algorithm 7.0 Hackathon** in March 2023 creating "Bombay EdTech" Edtech Web application where the main aim of the project was to develop an affordable Education platform with readily available resources which can enable the unprivileged youth to learn skills which can be quickly learnt and can generate employment readily.

Techfest – College Ambassador, IIT Bombay — **July 2021 – February 2022**
- Successfully completed the Social Media Marketing Internship as a College Ambassador at Techfest, IIT Bombay, with a gold medal.