

# Atharva Rajan Kale

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## EDUCATION

**Rochester Institute of Technology – Rochester, USA**

*Masters in Computer Science*

*Expected Completion Fall 2026*

**Vivekanand Education Society's Institute of Technology – Chembur, India**

*Bachelor of Engineering in Electronics & Telecommunication*

**Aug 2020 - May 2024**

*Honors in Artificial Intelligence & Machine Learning*

**CGPA: 9.63/10**

## SKILLS

**Programming Languages:** JavaScript, Java, Python

**Frameworks and Libraries:** Spring Boot, Hibernate, React.js, Node.js, Express.js, TensorFlow, Keras

**Tools and Technologies:** REST APIs, HTML5, CSS, Git/GitHub, IntelliJ

**Databases & Clouds:** MySQL, PostgreSQL, MongoDB, Amazon Web Services, Google Cloud Platform

## EXPERIENCE

**Junior Web Editor - IEEE VESIT**

*Aug 2022 – Apr 2023*

- Orchestrated and oversaw various technical workshops and events, demonstrating exceptional organizational skills; arranged workshops, hackathons, and coding sessions to help 200+ students with UI/UX and Machine Learning.
- Curated, edited, and published engaging content for social media platforms, including posters, Instagram posts, and reels, enhancing brand visibility and audience engagement.

**Senior Technical Member - Tinkerer's Lab EXTC, VESIT**

*Feb 2022 – Apr 2023*

- Designed, coordinated, and executed hands-on technical workshops focused on Arduino and Raspberry Pi, managing registrations, volunteers, and promotional materials.
- Spearheaded problem setting and organization of 25+ competitive coding contests with a team of 24 people.

**Summer Trainee – Hindustan Petroleum Corporation Limited**

*Jun 2022 – Jul 2022*

- Utilizing advanced software tools and methodologies to model and simulate power usage.
- Generating detailed reports and documentation, presenting findings and recommendations to stakeholders.

## PROJECTS

**SmileScan - Predictive Dental Detection** | *Python, HTML/CSS, Deep Learning* | *GitHub*

*Aug 2023 – Apr 2024*

- Engineered an innovative system for diagnosing dental issues in underserved rural areas, integrating ML models with a user-friendly web interface; coordinated in a team of 4 to develop a 94% accurate diagnosis model.
- Developed an intuitive website with an image capture GUI using a Raspberry Pi camera for dental imaging, seamlessly integrating ML algorithms for accurate image analysis and diagnosis.

**E-Commerce Website using Spring Boot and Vue Js** | *Spring Boot, Vue.js* | *GitHub*

*Apr 2023 – Sep 2023*

- Implemented an e-commerce website that allows users to browsing, wish listing, and purchasing products.
- Developed a dynamic and responsive user interface with Vue.js and integrated it seamlessly with Spring Boot, ensuring a smooth and intuitive user experience across devices.

**CapSolar - Solar Panel Pollution Analysis** | *Applied Machine Learning, Arduino* | *GitHub*

*Aug 2022- Jan 2023*

- Analyzed the effect of atmospheric gases (SOx, COx, NOx, Benzene) on solar panel power generation using ML algorithms (Naïve Bayes, SVM, Decision Tree) and visualization tools like PowerBI to set threshold values.
- Utilized Arduino and various sensors for real-time data collection, cloud posting, and alerting users about power via email.

**Prediction of Inborn Talents by Fingerprint Analysis - Team Lead Flask** | *CNN* | *SQLite* | *GitHub*

*Jul 2023 – Mar 2024*

- Built a web app using DMIT technology to classify fingerprint images into loops, arches, and whorls with MobileNet V2, and analyse ridge characteristics using advanced image processing.
- Generated a detailed 10-page report revealing brain hemisphere and lobe dominance percentages calculated by the app, providing personalized career guidance based on the analysis.

## CERTIFICATIONS

- Java Programming Masterclass updated to Java 17
- Data Structures in JAVA
- The Complete 2024 Web Development Bootcamp

*Udemy*

*Coding Ninjas*

*Udemy*

## ACHIEVEMENTS

- Published paper in IEEE entitled "Implementation of Safety Device for Women" at Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), November 2023.
- Published paper titled "SmileScan - Predictive Dental Detection" in Springer CCIS at the International Conference on Intelligent Computing and Big Data Analytics (ICICBDA 2024).
- Ideathon 2024 (national project competition) - Awarded 1st prize with IOT project "CapSolar – Smart Solar".
- Smart India Hackathon 2023 - Winner internal software hackathon with "SmileScan Predictive Dental Detection"