

# Rhea Laloo

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## EDUCATION

**K. J. Somaiya Institute of Technology, Mumbai**

CGPA: 9.95

*B.Tech in Information Technology — Secured 1st Rank in College*

Dec 2021 - May 2025

**K. C. College, Mumbai**

97.33%

*HSC Science (Class 12) — Scored among top 1% students across the board*

Aug 2019 - Jul 2021

**Villa Theresa High School, Mumbai**

91.83%

*ICSE Science (Class 10)*

Jun 2011 - May 2019

## TECHNICAL SKILLS

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

**Frameworks:** LangGraph, Django, Flask, Bootstrap, React Native, Node.js

**Libraries and Tools:** Git, GitHub, VS Code, MongoDB, Raspberry Pi, NumPy, Pandas, Matplotlib

**AI/LLM:** OpenAI GPT, Google Gemini, Meta LLaMA

## WORK EXPERIENCE

**Tata Consultancy Services**

*AI Engineer*

Dec 2025 - Present

- Built **end-to-end log anomaly detection** pipeline using Autoencoders and Isolation Forest; applied **SHAP for interpretability** and root-cause analysis of abnormal patterns in large-scale system logs.
- Clustered anomalous log patterns and integrated LLM-based analysis to classify potential attack types, generate actionable insights, and support intelligent security monitoring.
- Built **chub-guard**, an **AI-powered linting tool** that detects deprecated and outdated code patterns against documentation indexed in Context Hub (chub); published on **PyPI**, **npm**, and as a **VS Code extension**.
- Mentored 100+ students across 5 states at **Yuvai Hackathon (India AI Impact Summit)**, enabling non-technical students to build apps via no-code/low-code methodologies.

**Nareshwadi Learning Centre**

*Lead Software Development Intern*

Jun 2024 - Jun 2025

- Developed and deployed a full-stack React Native cattle management app to manage **50+ cattle**, including lifecycle tracking, offline milk entry, and alert systems.
- Implemented detailed analysis and report generation features including milk production analysis over the last 7 days.
- Built a module to predict cattle diseases and milk yield trends using a **Random Forest algorithm** with **94% accuracy**.
- Conducted multiple rounds of user testing and collaborated with farm staff to gather requirements and improve usability.

**AICTE - IBM SkillBuild**

*Artificial Intelligence Intern*

May 2023 - Jul 2023

- Built an AI model to monitor mental fitness trends across 15+ countries.
- Trained the model using 20+ years of historical data to forecast future mental fitness rates.
- Achieved **98% accuracy** using regression algorithms.

## PROJECTS

- **ADHD Detection Model**  
Built an ADHD detection system using Naive Bayes, SVM, and Random Forest algorithms on the ADHD-200 dataset. Random Forest achieved over **87.2% accuracy**.
- **RoadHawk - IoT Based Pothole Detector**  
Developed a Raspberry Pi based pothole detection system using CNNs, sensors, and Google Maps integration with a Django backend.
- **SDS - Online Quiz Website**  
Engineered an online quiz platform with 200+ questions, separate student/teacher logins, scheduling, and real-time results.

## ACHIEVEMENTS

- Earned the **Oracle Cloud Infrastructure AI Foundations Associate Certification**.
- Finalist at **Avishkar Research Convention 2024**.
- Selected for **CiiA 2024 and 2025 Top 80** in India out of 695 teams for an IoT-based pothole detection system.
- Earned the **AWS Academy Cloud Web Application Builder Badge**.
- Won **1st Place** in the CodeCheck coding competition held by IETE-KJSIT.
- Secured **1st Rank** in Engineering studies.