

# Rounak Agrahari

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## Education

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**VIT Bhopal University, Bhopal | GPA: 8.90**

October 2022 - Present

*Bachelor of Technology in Computer Science and Engineering Specialization in AI and ML*

**Matoshri Education Society, Nashik | Percentage: 79%**

2021 - 2022

*12th (Maharashtra State Board)*

**New Era English School, Nashik | Percentage: 92.20%**

2019 - 2020

*10th (Maharashtra State Board)*

## Technical Skills

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**Languages:** C++, Python, SQL

**Frameworks and Libraries:** Data Science, Machine Learning, TensorFlow, Pandas, NumPy, Matplotlib, OpenCV, Salesforce

**Developer Tools:** Git, GitHub, VS Code, Visual Studio, AWS(basics)

## Projects

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**Lung Cancer Prediction System** | Python, Numpy, Sklearn, MySQL

January 2025

- Developed a predictive system for lung cancer diagnosis using an ensemble of Logistic Regression, Decision Tree Classifier, and Support Vector Classifier (SVC), achieving a high accuracy of 96%, outperforming several recent research benchmarks in predictive accuracy by at least 5-10%, demonstrating competitive benchmarking.
- Integrated real-time user input collection via web forms, enabling dynamic predictions based on current symptoms and health indicators.
- Designed and deployed a recommendation module to suggest the nearest hospitals for users flagged as high-risk, based on location and severity.

**Credit Card Fraud Detection** | Python, Sklearn, Numpy

October 2024

- Analyzed and modeled 284,807 real-world credit card transactions, identifying 492 fraud cases (0.17%), tackling extreme class imbalance..
- Achieved strong predictive performance with accuracies of 88% (Logistic Regression), 89% (Decision Tree), and 93% (Random Forest), demonstrating robust classification capability.
- Leveraged ensemble learning in Random Forest to improve generalization and reduce overfitting, resulting in the highest detection accuracy among tested models.

**Smart Attendance** | Python, MySQL, OpenCV, Tkinter, Numpy

July 2024

- Developed an AI-based attendance system using security cameras and face recognition to automate tracking for classrooms of up to 100 students.
- Achieved 90% face recognition accuracy by implementing Haar cascade classifiers with OpenCV and optimizing ML algorithms in Python.
- Integrated a MySQL database to manage attendance records for 1,000+ students, ensuring reliable and scalable data handling.
- Built a user-friendly GUI with Tkinter, enabling administrators to mark attendance in under 5 seconds per student.

## Certifications and Badges

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- Completed **Introduction to Deep Learning Certification** from Infosys. [View Credential](#)
- Earned **Salesforce Superbadge – Apex Specialist** from Salesforce Trailhead (April 2025). [View Credential](#)

## Extracurriculars and Achievements

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- Collaborated on club-led events, workshops, and hackathons for **Vitronix Club** as a Core Programming Team Member.
- Competed in a multi-stage national-level tech competition **ZS Campus Beats Tech Challenge** (2025) involving algorithmic coding, SQL problem-solving, and domain-specific quizzes.