

Rounak Manoj Agrahari

B. Tech CSE with specialization in AI & ML

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1. EXPERIENCE

• CodSoft | Mar 2024 – Apr 2024

• Machine Learning Intern (Remote)

- Developed 2+ ML projects, collaborating with 10+ colleagues over a structured one-month program.
- Demonstrated core machine learning and data processing skills through individual projects involving model development, evaluation, and visualization.

2. PROJECTS

a) Lung Cancer Prediction System | Mar 2024 – Apr 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.

b) Credit Card Fraud Detection | Nov 2023 - Feb 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.

3. ACADEMIC BACKGROUND

• VIT Bhopal University | Nov 2022 - Jun 2026

- B. Tech Computer Science Engineering with Specialization in AI & ML – 9.06 **C.G.P.A.**

• Matoshri Education Society | Maharashtra State Board

- 12TH (Jul 2022) - **79.0%**

• New Era English School | Maharashtra State Board

- 10th (May 2020) - **92.2%**

4. SKILLS

• Programming Languages:

Python, C, C++

• Machine Learning:

Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn.

• Soft Skills:

Team Collaboration, Remote Work Coordination, Critical Thinking.

5. ACHIEVEMENTS

- Applied Machine Learning in Python | **Coursera** | DEC 2023
- Python Essentials | **Vityarthi** | MAY 2025
- Computer Vision | **Vityarthi** | JAN 2025
- Privacy and Security in online social media | **NPTEL** | APR 2024

6. EXTRACURRICULAR

- 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.

7. LANGUAGES

- **English (5+ years)** - Working Proficiency,
- **Hindi (15+ years)** - Working Proficiency,
- **Marathi(15+ years)** - Verbal Proficiency (Native)