

# Abhishek Raj

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## Education

### Oriental Institute Of Science And Technology , Bhopal

B-Tech in Computer Science and Engineering

Nov 2022 – May 2026

CGPA : 7.74 / 10

### HD Jain College , Ara

Intermediate (class XII)

April 2019 – Mar 2021

Percentage – 76.8

### Jean Pauls High School , Ara

Matriculation (class X)

Apr 2018 – May 2019

Percentage – 92.3

## Skills

**Languages:** C++ , Python

**ML/DL Frameworks:** PyTorch, Scikit-learn

**Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn

**Tools:** Git, Jupyter Noteboook , VS Code , Streamlit

**Databases:** MySQL

**Soft Skills:** Collaboration, Decision-Making, Analytical Thinking, Clear Communication, Strategic Thinking

**Area of Interests :** Machine Learning , Deep Learning , Data Science

## Projects

### Credit Risk Modelling system ( Machine Learning )

[GITHUB](#) | [LIVE LINK](#)

- Built and deployed a logistic regression model to predict loan default risk, achieving **F1-score of 0.94** for the risky borrower class.
- Handled severe class imbalance using **SMOTE-Tomek Links** to improve recall for minority class.
- Performed **hyperparameter tuning** with **Optuna**, optimizing parameters like C, solver, and tol to maximize model performance
- Evaluated the model using Ks statistic , rank-ordering and gini coefficient

### Vehicle Damage Detection App ( Deep Learning )

[GITHUB](#) | [LIVE LINK](#)

- **Built and deployed a vehicle damage detection system** using ResNet50 (transfer learning) trained on ~2500 images across 6 classes, achieving ~80% validation accuracy.
- **Integrated FastAPI backend with Streamlit UI** to enable real-time image classification and scalable API-based access for external services.
- Designed and evaluated the model with **classification reports & confusion matrices** for robust performance tracking.

## CERTIFICATIONS & ACHIEVEMENTS

- Solved around 150 questions of Data Structures And Algorithms on Leetcode and GeeksForGeeks platform
- Introduction to networking certification