

# ROHAN KUMAR MANDAL

## CSE - AIML

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Portfolio- <https://rohanmdl.vercel.app/>

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## SUMMARY

B.Tech CSE (AIML) student at Jain University (SGPA 8.5) with experience in AI, machine learning, and Data visualization. Built real-time ML systems including road damage detection and Loan Eligibility Prediction System using Python, and OpenCV.

## WORK EXPERIENCE

- **Artificial Intelligence Intern** | RD-Infro-Technology | Jan – Mar 2025

Completed an 8-week virtual internship in Artificial Intelligence and received a certificate for outstanding performance.

GitHub:

- **Web Development Intern** | CodSoft | Jun – Jul 2025

Successfully completed a 4-week virtual internship in web development and received a certificate for outstanding performance.

GitHub:

## SKILLS (TECHNICAL)

- **Languages:** Python, Java
- **Frameworks/Libraries:** TensorFlow, PyTorch, HuggingFace, OpenCV, Flask
- **Databases:** MySQL, MongoDB
- **Tools:** Git, GitHub, Google Colab
- **Concepts:** Data Structures & Algorithms, OOP, DBMS, Computer Networks

## PROJECTS

### AI Road Damage Detection System | Python, TensorFlow, OpenCV

- ongoing

- Built real-time pothole & crack detection model using CNNs and OpenCV
- Achieved 92% accuracy on KITTI dataset.

### Generative-AI for Demystifying the Legal Documents | Python, Transformers, OCR, NLP, Flask

- Developed AI tool to simplify contracts and highlight high-risk clauses using LLMs & OCR
- Added clause comparison + compliance checklist features for faster legal understanding

### Multilingual AI Translator (Nepali & Sinhala) | Python, PyTorch, HuggingFace, M2M-100/NLLB, Tesseract, Flask, SQLite

- Developed offline/online image-to-image and PDF-to-PDF translator for Nepali & Sinhala to English using transformer models
- Integrated OCR + Transformer models with batching & caching for 35% faster inference

### Loan eligibility prediction

- Program/Tool: Python, Pandas, NumPy, Scikit-learn, Flask, HTML, CSS, JavaScript
- Built a Loan Eligibility Prediction system using Python and deployed it as a web application for real-time loan approval prediction.

## EDUCATION

### B.Tech – CSE( AIML )

B.Tech CSE (AIML) — Jain University | SGPA: 8.5 | 2023–2027

### 12th – NEB board

Everest Florida High School – GPA: [2.95]

### 10th – NEB board

Siddhababa.Eng.Boa.High School — GPA: [3.65]

## CERTIFICATIONS

- Earned Certificate for selection in Internal Hackathon of Sih 2025
- Earned Certificate for selection in Gen AI Exchange Hackathon
- Earned “DeepLearning.AI” from Coursera