

# Sabhyata Sinha

7644883688 | [sinhasabhyata1105@gmail.com](mailto:sinhasabhyata1105@gmail.com) | [LinkedIn](#) | [GitHub](#)

## Education

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### Manipal University Jaipur

BTech in Computer Science Engineering (AIML)

Aug 2023 – Present

CGPA: 7.72

## Technical Skills

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**Languages:** Python, Basics of C/C++, HTML, SQL

**ML:** Linear Regression, CNN, Deep Learning, LLMs, Computer Vision

**Tools:** Git, GitHub, Google Colab, VS Code, Jupyter, Linux

**Libraries:** pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, Keras, Streamlit, FastAPI

## Experience

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### AI/ML Intern

Tiaro Rides, AIC-MUJ

May 2025 – Present

Hybrid

- Built a transparent fare and mileage prediction system to optimize ride pricing.
- Engineered features (vehicle age, AC usage) improving pricing accuracy.
- Achieved 40% lower RMSE vs baseline models.
- Deployed model with Streamlit FastAPI, developing driver face recognition using OpenCV.

### Open Source Contributor (PWOC)

Punjab Engineering College

Mar 2025 – Apr 2025

Remote

- Developed hybrid DenseNet + NASNet model for Knee Osteoarthritis classification.
- Implemented EfficientNetB3 benchmarking with augmentation and fine-tuning.

### Machine Learning Intern

Plasmid Innovation Pvt. Ltd.

Jun 2024 – Aug 2024

Remote

- Worked on data preprocessing and ML model development.
- Contributed to research projects like fraud detection in online payments.

## Projects

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### Ultrasound Nerve Segmentation (Research) | Deep Learning

Oct 2024 – Present

- Developing hybrid CNN models (SegNet, U-Net) for medical imaging accuracy.

### Online Payment Fraud Detection | Machine Learning

Jul 2024 – Aug 2024

- Applied Supervised/Unsupervised learning, SVM, K-Means, Random Forest.
- Used scikit-learn, Seaborn, XGBClassifier with confusion matrix evaluation.

## Extra-Curricular Activities

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- Winner of two CyberSecurity quizzes (CyberSpace club).
- Advanced to Level 2 in “Error Odyssey” competition.

## Certifications

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- Data Structures and Algorithms – CodeChef
- Python Essentials – Cisco
- Database SQL – Oracle
- Fundamentals of Azure AI Services – Microsoft Azure
- Linux Certification – Red Hat