Sabhyata Sinha

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Experience

Social Winter of Code (SWOC), Open Source Contributor — Dec 2025 – Present
- Contributed to open-source projects, improving features and documentation.

BSNL, Patna, Vocational Trainee — Dec 2025 – Jan 2026
- Studied telecom architecture, broadband technologies, GSM, and protocols.

Tiaro Rides, AI/ML Intern — May 2025 – Nov 2025
- Built ML models with Python, TensorFlow, scikit-learn; handled data preprocessing and validation.

PWOC, Punjab Engineering College, ML Research Intern — Mar 2025 – Apr 2025
- Developed hybrid DenseNet+NASNet model and EfficientNetB3 benchmarking for Knee OA classification.

Plasmid Innovations (AICTE Internship), ML Intern — Jun 2024 – Jul 2024
- Implemented ML models (Linear/Logistic Regression, SVM, K-Means, XGBoost) and worked on fraud detection.

Education

Manipal University Jaipur, B.Tech in CSE (AIML) — Aug 2023 – Jul 2027
CGPA: 7.8

Skills

Languages: Python, C/C++, HTML, CSS, JavaScript
ML/AI: Linear Regression, CNN, Deep Learning, LLMs, Computer Vision
Tools: Git, GitHub, Colab, VS Code, Jupyter, Linux
Libraries: pandas, NumPy, Matplotlib, Seaborn, scikit-learn, TensorFlow, Keras, Streamlit, FastAPI

Projects

Ultrasound Nerve Segmentation (Research - Journal) — Deep Learning
- Hybrid CNN (U-Net encoder + SegNet decoder) for brachial plexus nerve segmentation.
- Preprocessing, augmentation, and evaluation using medical imaging metrics.
- Research completed; manuscript ready for journal submission.

PharmaSage AI – Drug Repurposing (Prototype/Hackathon) — Python, Streamlit [GitHub](#)
- Agentic AI platform with literature, clinical, patent, and market analysis.
- Interactive Streamlit dashboard with tables, charts, and downloadable PDF reports.

Online Payment Fraud Detection — Python, ML [GitHub](#)
- ML models (Logistic Regression, Decision Trees, Random Forest, XGBoost, LSTM) for fraud detection.
- EDA, feature engineering, evaluation (Accuracy, Precision, Recall, F1-score), with future enhancements using SHAP/LIME.

Achievements & Certifications

- Winner of two CyberSecurity quizzes (CyberSpace Club); Advanced to Level 2 in "Error Odyssey".
- **Data Structures and Algorithms** – CodeChef
- **Python Essentials** – Cisco
- **Database SQL** – Oracle
- **Azure AI Services Fundamentals** – Microsoft Azure
- **Linux Certification** – Red Hat