

LABHANSHU GUPTA

+91 6261402252 | labhgupta444@gmail.com | [LinkedIn](#) | [GitHub](#) | [CodeChef](#) | [CodeForces](#) | [Leetcode](#)

EDUCATION

Indian Institute of Information Technology,

November 2022 – Present

Bachelors of Technology – Computer Science Engineering(CSE)

CGPA: 7.80

Relevant Coursework: **Data Structure & Algorithms, Object Oriented Programming, Machine Learning**

EXPERIENCE

ACADEMIC PROJECTS

VORtex: Bitcoin Trade Signal Prediction Using Machine Learning and XGBoost | *Python, XGBoost, Scikit-Learn, Seaborn* [GitHub](#)

- Integrated a novel risk management module into the Bitcoin trading signal prediction pipeline, minimizing potential losses by 18% during volatile market conditions; achieved a Sharpe ratio of 1.2 in simulations.
- Engineered key features like RSI, MACD, and momentum indicators to capture market trends.
- Tuned the XGBoost classifier using GridSearchCV, achieving 87% prediction accuracy.
- Performed feature importance analysis and cross-validation for model interpretability.
- Visualized trends with Seaborn and Matplotlib, including correlation heatmaps and trade insights.
- Ensured results aligned with real-world crypto trading logic and time-series behavior.

SecureFlow: Online Payment Fraud Detection using Machine Learning in Python | *Python, Scikit-Learn*

[GitHub](#)

- Designed an ML-based system to detect fraudulent online transactions from real financial data.
- Used Pandas and NumPy for data cleaning, time-series handling, and feature transformation.
- Implemented supervised models including Random Forest, Logistic Regression, and XGBoost.
- Used SMOTE and stratified sampling to address class imbalance, boosting model precision.
- Achieved over 92% precision and optimized results using cross-validation and ROC-AUC metrics.
- Identified top fraud-predictive features, improving system robustness and reliability.

ADDITIONAL INFORMATION

- **Technical Skills:** C, C++, Python, JavaScript, MATLAB, HTML, CSS, MYSQL.
- **Technologies:** React JS, Node JS, Express JS, Bootstrap, TensorFlow, OpenCV, Jira.
- **Developer Tools:** Github, Google colab, VSCode, JSON, MS Office Suite, Anaconda.
- **SoftSkills:** Leadership, Team Management Proficiency, Creativity.

