LABHANSHU GUPTA

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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.
- **DeveloperTools:** Github, Google colab , VSCode, JSON, MS Office Suite, Anaconda ● **SoftSkills:** Leadership, Team Management Proficiency, Creativity