LABHANSHU GUPTA

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EDUCATION

Indian Institute of Information Technology, *November 2022 – Present*
Bachelors of Technology – Computer Science Engineering(CSE) **CGPA: 7.81**

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

ACADEMIC PROJECTS

OneCart| AI Powered Ecommerce website|React.js, Node.js, Express.js, MongoDB **GitHub**

- Developed a full-stack AI-powered e-commerce platform using **React.js**, **Node.js**, **Express.js**, and **MongoDB**
- Integrated **JWT-based** authentication and **OAuth 2.0** for secure login and user management.
- Implemented secure payment processing with **Razor pay** and role-based access control for users and admins.
- Managed application state with **Redux Toolkit** and enhanced UI using **Tailwind CSS** for responsive, mobile-first design.
- Implemented a **ChatGPT-powered AI assistant** using the **OpenAI API**, enabling dynamic product Q&A and reducing customer support

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

- **Languages:** HTML, CSS, JavaScript, TypeScript,SQL
- **Frontend**:React.js, Next.js, Bootstrap, Tailwind CSS
- **Backend**:Node.js, Express,REST APIs, JWT, OAuth 2.0
- **Databases**: PostgreSQL, Bootstrap,Mongodb
- **Tools & Platforms:** Git, GitHub, Postman, VSCode, NPM, Chrome DevTools
- **SoftSkills:** Leadership, Team Management Proficiency, Creativity ,Adaptability ,Problem Solving
- **Technologies:** REST APIs, MVC Architcture, Git
- **Problem Solving**: Solved 170+ Data Structures and Algorithms problems on LeetCode