LOKNATH ROY

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Summary

Proficient in building real-world projects using Flask, React, and MySQL, with a strong grasp of data structures, algorithms, and object-oriented programming. Seeking an opportunity to contribute technical expertise, creativity, and problem-solving skills to innovative software solutions.

Skills

Programming Languages:
Python, C, C++, Java, JavaScript
Web Technologies:
HTML, CSS, JavaScript, React.js, Node.js, Flask, Django
Databases:
MySQL, SQLite, MongoDB
Machine Learning & AI:
scikit-learn, NumPy, Pandas, OpenCV, TensorFlow
Blockchain Development:
Solidity, Ethereum, Web3.js
Developer Tools & Platforms:
VS Code, Git, GitHub, Jupyter Notebook, Postman
Other Tools & Concepts:
REST APIs, JSON, Data Structures, Algorithms, Object-Oriented Programming (OOPs)

Education

Diploma : **Computer Science and Engineering**
GOVERNMENT POLYTECHNIC
GPA: 84%

B.Tech : **Computer Science and Engineering**
JAIN DEEMED-TO-BE UNIVERSITY
GPA: 7.00 (Till 6 Sem)

Certifications

- Google Project Management: Professional Certificate
- IBM Machine Learning Professional Certificate
- Introduction to Programming with Python and Java Specialization
- Linux Fundamentals from LearnQues

Projects

1. Face Attendance System using Machine Learning
Python, OpenCV, scikit-learn, SQLite
- Developed a real-time face recognition attendance system using webcam input.
- Implemented login authentication and auto-training for new users.
- Designed a local SQLite database for secure attendance storage.

2. Blockchain-Based Online Voting System
Solidity, Ethereum, Web3.js, HTML/CSS/JS
- Built a decentralized voting platform ensuring transparency and tamper-proof results.
- Deployed smart contracts on Ethereum test network to handle secure vote casting.

3. AI Chatbot for College Enquiries
Python, Flask, NLP, scikit-learn
- Created an intelligent chatbot to answer student queries related to admissions, courses, and placements.
- Used TF-IDF vectorization and logistic regression for context-based response generation.

4. Smart Health Prediction System
Python, Flask, scikit-learn
- Designed a web-based health diagnostic system that predicts possible diseases based on symptoms.
- Integrated machine learning models with a responsive web interface for real-time prediction.

5. Student Result Management System
Python, MySQL
- Developed a student record and marks management system with CRUD operations.

- Automated report card generation and data validation using Python scripts.

6. Emotion Detection from Facial Expressions

Python, OpenCV, CNN

- Implemented a convolutional neural network model to classify human emotions from facial input.
- Enabled real-time emotion tracking using webcam feed.

7. E-Learning Management Platform

React.js, Node.js, MongoDB

- Developed a web-based learning system with user registration, course access, and quiz evaluation.
- Focused on responsive design and smooth front-end performance.

8. Credit Card Fraud Detection System

Python, Pandas, scikit-learn

- Built an ML model to detect fraudulent credit card transactions using classification algorithms.
- Applied data balancing techniques (SMOTE) to improve accuracy.