Ashutosh Tripathi

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🎗 CARRIER OBJECTIVE

B-Tech Computer Science Engineering student with a strong foundation in Networking, Cyber Security, Web Development, and Data Structures & Algorithms. Looking for an opportunity to apply my knowledge and grow as a professional in a dynamic and innovative environment, enhancing productivity and provide valuable insights.

I expect to continuously refine my capabilities through ongoing learning, to obtain challenging position that best utilizes my skills and provide opportunity to grow skills which would me as a graduate to grow while fulfilling organizations goals.

🎗 PROJECTS

☑ Random password generator

The "Random Password Generator" project is a Python-based utility designed to provide users with secure and customizable password generation. This tool ensures the creation of strong passwords by offering options for uppercase and lowercase letters, digits, and symbols. Built with simplicity in mind, it provides an efficient solution for users seeking a reliable password generation tool.

Features

- 👉 User-friendly Command-line Interface: Easy-to-use interface for quick password generation.
- 👉 Customizable Password Complexity: Choose uppercase, lowercase, digits, and symbols according to your security needs.
- 👉 Flexible Password Length: Specify the length of the generated password.
- 👉 Robust Error Handling: Ensures a seamless experience even in the face of unexpected inputs.
- 👉 Versatile Use Case: Suitable for personal use and educational purposes.

Tools Used: Python, burp suit, hacker one

☑ PAYMENT FRAUD DETECTION MECHANISM

Developed a predictive system to detect fraudulent online transactions using supervised machine learning models trained on financial datasets. Explored multiple algorithms including Random Forest, Logistic Regression, and Neural Networks to identify the most accurate method based on precision-recall trade-offs.

Created a real-time simulation using Python where the model could predict the legitimacy of incoming transactions and issue alerts for suspicious activities. Emphasized ethical AI practices by anonymizing user data and ensuring the system followed data privacy principles during development and testing phases. Positioned the project as a foundation for future enhancements like deep learning models, adaptive fraud rules, or integration with mobile wallets and banking APIs.

Tools Used: Python, NumPy, Jupiter Notebook, Machine Learning

🎗 CERTIFICATES

Cisco: Introduction to cyber security

Forage: Cyber security Analyst

Try Hack Me: 24 Cyber security challenges

Grras solution pvt. Ltd.: 3-month internship in cyber security & ethical hacking.

Great learning: Python data structure

IIT Kanpur: Python Basic to Advance

ACHIEVEMENTS

Earned 4-star ratings in cyber security, and **3-star in Problem Solving** on **Hacker Rank**, showcasing a strong command over syntax, OOPs concepts, algorithmic problem-solving. and coding skills across multiple languages.

Solved over **200+ coding problems** across **Hacker Rank**, **Leet Code**, and **Code Chef**, with a focus on **Data Structures**, **Algorithms**, and **problem-solving techniques**.

Completed professional certification's introduction to cyber security **(Cisco)**, and 30days streak **(Try Hack Me)**

Demonstrated versatility by working with a wide range of tools including, **Metasploitable ,burp Suit, Nmap, VMware**, and Azure Cloud Services**.**

COURSEWORK

Programming & Algorithms:

Data Structures and Algorithms, Object-Oriented Programming, Problem Solving Techniques

Computer Fundamentals:

Computer Organization & Architecture (COA), Operating Systems, Digital Electronics

Networking & Security:

Cyber security, Computer Networks, Network Protocols, TCP/IP Model, Cisco Networking Basic

Personal Details

Known Language: English, Hindi

Personal Hobby: Singing, play chess, Listen Music

Married Status: Single

Address

Current address

Noida Sector 1, Uttar Pradesh - 201301

Permanent Address

Kalu Kuwan, Banda, Uttar Pradesh- 210001