AAYUSH GARG

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EXPERIENCE

Cyber-Security Intern

FinEzzy

June 2023 – July 2023 **Delhi, India**

- **Tech used:** BurpSuite, OWASP Zap, Nmap
- Utilized **OWASP Zap** for vulnerability detection and **Burp Suite** for pentesting.
- Identified and reported security vulnerabilities, providing detailed remediation recommendations to enhance security posture.

AI/ML Intern

ProcurEngine

May 2024 – July 2024 **Noida, India**

- **Tech used:** ChromaDB, Langchain, OpenAI
- Developed a **Retrieval-Augmented Generation (RAG)** chatbot application to enhance customer support and internal communication within the organization.
- Working with the **team on the design**, development, and **Integration of chatbot**.
- Utilized **OpenAI** API for generating responses and **ChromaDB** for efficient similarity search.

TECHNICAL SKILLS

- Programming Languages: Javascript, Python, Java
- Packages: Sklearn, Numpy, Pandas, Matplotlib, NLTK
- Databases: SQL
- Framework: React, Django, Flask, Streamlit, APIs
- Tools: Git, Github, Postman

PROFILE LINKS

- Leetcode Profile Link
- GFG Profile Link
- Kaggle Profile Link
- Github Profile

ACHIEVEMENTS

- Were in the **Top 5** teams in **IIIT Ranchi Hackathon**
- Top open source contributer in **Hackodex 2023** by Codex
- **5 star** in Problem solving in **HackerRank**
- Solved over **800 coding questions** on different platforms.
- Over **400 days** of consistent coding on Leetcode.

EDUCATION

B.Tech. (Mech) - 7.79 CGPA

Birla Institute of Technology, Mesra

2021 – 2025 Mesra, Jharkhand

Higher Secondary - 95%

Delhi Public School

2020 Ranchi, Jharkhand

PROJECTS

RAG Chatbot Application

- **React | Flask | ChromaDB | Langchain | FastAPI | OpenAI API**
- Constructed a responsive and interactive frontend using React, while utilizing Flask and FastAPI to manage backend operations.
- Implemented ChromaDB to enhance the chatbot's ability to retrieve relevant data quickly, ensuring precision in AI-driven responses.
- Utilized OpenAI API to generate human-like responses, enhancing the chatbot's interaction quality and user experience.

Student Performance Predictor

- **Python3 | Scikit-learn | Matplotlib | Flask**
- Developed a machine learning model to predict student performance based on various independent features such as previous grades, gender and level of education.
- Conducted exploratory data analysis (EDA) to identify key features and relationships.
- Implemented and compared various regression models to predict student scores.

Credit Card Fraud Detection

- **Python3 | Scikit-learn | Matplotlib | Seaborn | Streamlit**
- Developed a machine learning model to detect fraudulent credit card transactions using ensemble learning techniques, enhancing the security of financial operations and safeguarding users' financial assets.
- Preprocessed highly imbalanced data using Random Undersampling to enhance model accuracy and balance the dataset.

Twitter Sentiment Analysis

- **Python3 | Scikit-learn | NLTK**
- Developed a machine learning model to analyze sentiment in Twitter posts, classifying tweets as hate speech or not.
- The project involved collecting and preprocessing Twitter dataset and performing text cleaning, tokenization, and vectorization with NLTK and Scikit-learn.