Abhishek Singh

Profile Summary

M.Tech graduate in Information Security (Computer Science) with a strong background in Machine Learning, Data Science, Cyber Security, etc. Skilled in Python, C++, and data analysis. Eager to apply academic knowledge and project experience in a dynamic role focused on innovation and technology advancement
Portfolio Github

Skills

- Data Structure, Algorithm
- Python, C, C++, SQL
- Pandas, Numpy, Matplotlib, Seaborn
- Machine Learning, Deep Learning
- JavaScript, HTML, CSS GitHub
- Jupyter , Git , VS code
- Communication and team collaboration

Contact details

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Mirzapur,India

Personal information

Year of birth: **1998**
Citizenship: **Indian**
Languages: **English**, **Hindi**

Education

M.Tech in Information Security (Computer Science) *from* ***National Institute of Technology, Rourkela***. **2022–2024**

B.Tech in Computer Science and Engineering ***Feroz Gandhi Institute of Engineering and Technology, Raebareli*** . **2016–2020**

Projects

Tweet Sentiment Analysis

GitHub Link

The "Tweet Sentiment Analysis" project aimed to extract insights from social media data using **Python** and **Jupyter Notebook**. It involved developing advanced algorithms for analyzing and classifying tweet sentiments while handling large-scale datasets. By applying **natural language processing (NLP)** techniques and integrating **machine learning models**, the project provided meaningful insights into social media sentiments.

Movie Recommendation System

GitHub Link

The project developed a comprehensive **movie recommendation system** using **content-based filtering techniques** to provide personalized suggestions based on movie features and user preferences. It leveraged **natural language processing (NLP)** to better understand user interests and applied **machine learning algorithms** to enhance the accuracy and relevance of recommendations, refining suggestions through continuous learning from user interactions

Research Project

A Predictive and Proactive Model for Privacy Protection of Mobility Data

Developed p mpc-H, a privacy protection mechanism utilizing non-convex optimal predictive control to sanitize user locations. The system maximizes privacy while maintaining data utility, leveraging **human mobility predictability** to create a **time-dynamic protection system**. It addresses challenges such as **non-constant sampling times** in broadcasts and enhances privacy by predicting mobility over a time horizon. By using a **points of interest-based privacy metric** and incorporating **future mobility patterns**, the approach significantly improves data protection compared to traditional methods.

Certifications

Deep Learning Specialization
Introduction to Cyber Attacks
Cyber Attack Countermeasures