Ranveer **Sahay**

Tech Enthusiast

Personal

Ranveer Sahay
Nationality: Indian
LeetCode:[RanveerSahay]

Areas of specialization

1.Data Structures and Algorithms
2.Machine Learning

Achievements

1.350+ Problems Solved on Leet-Code
2.Secured State Rank 9 in NTSE-2019
3.Secured AIR 9847 in IIT JEE ADVANCED 2021
4.Maximum Rating in CODECHEF 1542
5.Secured State Rank 14 in NSEJS

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Ranveer Sahay

Education

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY Shibpur, Howrah
Bachelor of Technology Computer Science and Technology

2021-25

DELHI PUBLIC SCHOOL Ranchi, Jharkhand
Associate in Science

upto 2021

Projects

SPAM EMAIL CLASSIFIER |
Python, NumPy, Pandas, SkLearn, Seaborn, Keras [GitHub: GitHub]

Developed a machine learning model utilizing Natural Language Processing techniques to classify spam emails with an accuracy of 97.29 percentage.

Implemented various NLP techniques such as tokenization, stemming, and stop-word removal to pre-process email text data and extract features for the model.

Conducted thorough data analysis to identify key patterns and trends in the email data, which were used to optimize the model's performance and enhance its accuracy

NETWORK PACKET SNIFFER | *Linux Environment , C, Socket Programming ,Networking Protocols-TCP , UDP*[GitHub: GitHub]

Packet Inspection: Implemented a packet sniffer capable of inspecting network traffic at the packet level, extracting details like Ethernet headers, IP addresses, and protocol-specific information such as TCP or UDP headers.

Protocol Differentiation: Developed the sniffer to differentiate between various network protocols, focusing on TCP, UDP, and other protocols. The tool categorizes packets based on their protocol, providing a breakdown of network communication.

POTATO DISEASE CLASSIFICATION |
Python, NumPy , Pandas, SkLearn, Keras , Tensorflow[GitHub: GitHub]

Developed a Convolutional Neural Network (CNN) model for accurately classifying potato diseases with an accuracy of 95 percentage on the test data.

Employed various image augmentation techniques to preprocess the potato disease images, expanding the training dataset and enhancing the model's accuracy.

Conducted comprehensive performance analysis and hyperparameter tuning to optimize the model's accuracy and reduce training time for efficient potato disease classification

Technical Skills

- **1.Problem Solving**:Leetcode(Data Structures and Algorithms), Codechef
  2.Languages: C, C++
  3.Developer Tools: GitHub, VS Code
  4.Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn,Keras, Tensorflow