# Ranveer Sahay

Tech Enthusiast



#### Personal

Ranveer Sahay Nationality: Indian LeetCode:[ RanveerSahay]

## **Areas of specialization**

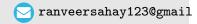
1.Data Structures and Algorithms 2.Machine Learning

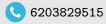
# Achievements

Code
2.Secured State Rank 9 in NTSE2019
3.Secured AIR 9847 in IIT JEE
ADVANCED 2021
4.Maximum Rating in CODECHEF
1542

5. Secured State Rank 14 in NSEJS

1.350+ Problems Solved on Leet-





f 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

- $\hbox{\bf \cdot 1. Problem Solving:} Leet code (Data \ Structures \ and \ Algorithms), \ Code chef$ 
  - 2.Languages: C, C++
  - 3.Developer Tools: GitHub, VS Code
  - 4.Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Keras, Tensorflow