

# Munna Ram

FINAL YEAR IT UNDERGRADUATE | DATA SCIENCE ENTHUSIAST | ML RESEARCH INTERN

Kuchaman City, Rajasthan

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## Education

### Dr B R Ambedkar National Institute of Technology

BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY, GPA: 8.12/10.0

Jalandhar, Punjab

December 2020 - PRESENT

### S. B. N. Senior Secondary School

CLASS XII (PCM) - RBSE, RESULT: 84.80 %

Sikar, Rajasthan

April 2018 - March 2019

### M. S. B. N. Senior Secondary School

CLASS X - RBSE, RESULT: 92.33 %

Parewadi, Rajasthan

April 2016 - March 2017

## Skills

### Technical Languages

Python, C/C++, Java (basic), HTML, CSS, JavaScript, SQL

### Frameworks and Tools

Scikit-Learn, TensorFlow, SpaCy, NLTK, Matplotlib, Pandas, NumPy, La-Tex, Linux, Microsoft Office, MySQL

### Academic Knowledge

Object-oriented programming, Data Structures and Algorithms, Operating Systems, Database Management, Software Engineering Concepts, Designing with UML, Web Development (basic)

## Experience

### Pinpencil LLP

Remote

DATA SCIENCE INTERN

June 2023 - July 2023

- SKILLS: Natural Language Processing, Chatbot Development, Leadership, Time distribution, Brainstorming
- Developed a chatbot capable of engaging in semi-conversational interactions using a powerful transformers model, achieving nearly 100% accuracy in extracting valuable information from conversations and building the profile of the user.
- Worked on a chatbot that accepts voice input, and rates the English language skills based on grammar, vocabulary, and fluency.
- Created a 70% accurate resume scoring model that parses resumes using a fine-tuned NER model and rates them based on job profiles.

### DSI, National University of Ireland, Galway

Remote

ML RESEARCH INTERN

August 2022 - October 2022

- SKILLS: Federated Machine Learning, Research, Clustering, Efficient Communication, Neural Networks, Deep Learning
- Proposed a clustering-based personalized federated intrusion detection approach resistant to data and model poisoning.
- Achieved 95.86%, 91%, and 80% accuracy in normal, data poisoning, and model poisoning scenario respectively.
- Implemented and Compared 3 research papers and assisted in writing research papers on network intrusion detection using machine learning.

## Projects

### URL Classifier

PROJECT HEAD AND DEVELOPER

February 2023 - July 2023

- SKILLS: Python, Machine Learning, Data Science, NLP, SQL, MLOps, TensorFlow, Data Visualisation, Self-Motivation
- Combined lexical feature extraction and n-gram technique to determine URL safety, with 98.4% accurate results.
- Deployed the model at the Hugging Face Space and managed a MySQL database to handle false predictions.
- Project Link: URL Classifier on GitHub

### IT Resource Bank

FRONTEND DEVELOPER AND API CODER

December 2022 - PRESENT

- SKILLS: HTML, CSS, JavaScript, Software Engineering, UML, GitHub, Adaptability, Teamwork
- Developing a resource bank for more than 350 students of the IT department, providing access to academic and placement study materials.
- Utilized Google Drive APIs to efficiently store large files on the website.
- Project Link: IT Resource Bank on GitHub

## Achievements

- Earned a 5-star rating on HackerRank for SQL and obtained SQL Advanced Certification.
- Solved 400+ coding and DSA problems on platforms like LeetCode, GeeksforGeeks and HackerRank etc.
- Co-authored and submitted a ResNet-based federated learning approach for network intrusion detection to "The Journal of Supercomputing".

## Position of Responsibility

### Prayaas- "A Campaign for Smile"

NIT Jalandhar

STUDENT VOLUNTEER

March 2022- PRESENT

- Provide free education to socially and economically disadvantaged 450+ children by dedicating a few hours daily.
- Accountable for tracking progress, managing events, supervising school admissions, and raising funds.