Ritisha Singh

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EDUCATION

Indraprastha Institute of Information Technology Delhi, India   2021 - 2025 *(Ongoing)*
Bachelors of Technology in Computer Science and Engineering   GPA: 8.19/10.0

Courses: Machine Learning, Data Structures and Algorithms, Analysis and Design of Algorithms, Advanced Programming in Java, Operating Systems, Computer Networks, Distributed Systems, Computer Organisation, Database and Management System, Natural Language Processing, Information Retrieval,Discrete Maths, Probability and Statistics, Multivariate Calculus, Differential Equations, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, LaTeX, LibGDX, QTCreater, VirtualBox, MySQL
Libraries: Pytorch, Numpy, Pandas, Tensorflow, Scikitlearn, Matplotlib

EXPERIENCE

Company - 8oL Robotics   *Jan, 2024 - May, 2024*
Research Internship at ARRT lab   *Delhi, India*
- Performed stable android Build for Qgroundcontrol on 5.15.2.
- Designed a custom QGroundControl interface for the android devices.

PROJECTS

Saraansh (Hindi Text Summariser)   *Jan, 2024 - May, 2024*
Tags: Python, NLP, HTML, CSS, JavaScript, Tesseract   git.io/saraansh
Saraansh focuses on Hindi text summarization by leveraging NER and multilingual transformer models. Additionally, the system supports OCR for non-digital data.

RAFT-Based Consensus   *Jan, 2024 - May, 2024*
Tags: Python, GRPC, Google Cloud Platform   git.io/raft
This project implements a modified Raft system for fault tolerance and consistency in distributed systems. It includes leader election, log replication, and entry commitment by maintaining a key-value database.

TCP System   *Aug, 2023 - Dec, 2023*
Tags: Computer Networks, C/C++   git.io/tcp
The project aims to build a reliable TCP system with three key components: ByteStream, Reassembler, and TCP Receiver. Its focus lies in ensuring reliability, byte ordering, and efficient data handling.

Assembler & Simulator   *July, 2022 - Aug, 2022*
Tags: Python, Computer Organisation   git.io/isa
An ISA Assembler & CPU Simulator that translates and executes assembly code, simulating a basic CPU with arithmetic, logical operations, label-based jumps, and variable storage.

Decipher & Decide (TnC Simplifier)   *Jan, 2024 - May, 2024*
Tags: Python, NLP, IR, HTML, CSS, JavaScript, RAG, Tesseract   git.io/tnc
Tnc-Simplifier is a web app that summarizes privacy policies, highlighting essential aspects. It also supports multilingual translation, OCR, and a chatbot for policy-related queries.

Other Projects
- **NSFW Classifier** : A robust ML model capable of identifying and filtering NSFW text content, primarily on social media platforms like Reddit.
- **Tank Stars** : Tank Stars Clone recreates the gameplay of the popular mobile game Tank Stars, featuring tank-based combat with strategic aiming and firing mechanics.

ACHIEVEMENTS

•Gold Medal for Excellence in Academics for 5 consecutive Years   *2014 - 2019*
•Medal for Academic Excellence – Allen Career Institute   *2019 - 2021*

POSITIONS OF RESPONSIBILITY

Summer Camp (Rural Internship):   *May, 2023 - June, 2023*
Students of Delhi govt schools were taught various topics

Odyssesy, IIITD: *2024*
Events Organising Team at Odyssey – Annual Fest of IIITD

Esya, IIITD: *2023*
Events Organising Team at Esya – Annual Tech Fest of IIITD