

UTKARSH SHRIVASTAV

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PROJECTS

- ❖ **Chat Room** ([Github](#)) | **Python, Socket Programming, PyQt**
 - A simple chat room application built using the **socket programming** concepts and **TCP protocol**. The client side UI is made using the **PyQt5**.
 - Implemented a user-friendly interface with PyQt5 allowing users to easily join the chat room, send messages, and gracefully exit the application, showcasing proficiency in GUI development and **client-server architecture**.
- ❖ **Handwritten Digit Recognition** ([Github](#)) | **Python, Tensorflow, Keras, Numpy**
 - Developed a Handwritten Digit Recognition system utilizing **TensorFlow** and **Keras** neural networks to accurately predict numbers from handwritten digits.
 - Implemented **softmax function** for numerical stability and **Sparse Categorical Cross-entropy loss function** to facilitate predictions between 0-9, ensuring robust classification performance.
 - Utilized **Confusion Matrix** and **Seaborn** to evaluate the accuracy of the dataset, providing insightful metrics for assessing the model's performance and improving its predictive capabilities.
- ❖ **Book Recommender System** ([Github](#)) | **Numpy, Pandas, Scikit-Learn**
 - Created a Book Recommender System using Python libraries **Numpy**, **Pandas**, and **Scikit-learn** within **Jupyter Notebook environment**, leveraging datasets sourced from Kaggle.
 - Implemented **Cosine Similarity** to identify similar books, employing Pandas for efficient data manipulation and processing to enhance recommendation accuracy.
 - Developed a robust recommendation engine capable of suggesting relevant books based on user preferences, demonstrating proficiency in data analysis, machine learning techniques, and **collaborative filtering methodologies**.
- ❖ **Sudoku Solver** ([Github](#)) | **C++**
 - Implemented a Sudoku Solver in C++ leveraging the **Backtracking Algorithm**, a fundamental concept from **Data Structures and Algorithms**. Utilized recursion to efficiently explore and solve Sudoku puzzles. Incorporated **File Handling concepts** to output solutions to text files, demonstrating proficiency in algorithmic problem-solving and file manipulation techniques.

EDUCATION

- ❖ **Electronics and Communication (ECE)** | Institute of Engineering & Technology, DAVV
CGPA: 7.26 | (Nov 2021 - Present)

ACHIEVEMENTS / HOBBIES

- ❖ **Codechef** : 3 Stars with maximum rating : 1616 ([Profile](#)).
- ❖ Best Ranking in the contest (codechef) : **Global Rank 85**.
- ❖ Participated in **Meta Hacker Cup** Qualified for Round 1 ([Certificate](#))
- ❖ Playing Chess and Reading Books.

RELEVANT COURSES

Data Structure, Computer Programming in C++, Object Oriented Programming

Online Courses:-

[Machine learning Specialization](#) , [Neural Networks and Deep Learning](#), [Artificial Intelligence Foundation](#) : [Thinking Machines](#), Introduction to Programming with Python (CS50)

TECHNICAL SKILLS

Programming Languages : C++, Javascript, Python.

Machine Learning : Tensorflow, Keras, Numpy, Pandas, Scikit-Learn

Databases : SQL, NoSQL, MongoDB.

Frameworks : NodeJS, Django, Flask, Express, Socket Programming.