Utkarsh Shrivastav

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Github Profile. | LinkedIn Profile. | Twitter Profile

ACADEMIC PROJECTS

- **Combined Cycle Power Plant** (Github) **| Python,Pandas,Jupyter Notebook, scikit-learn**
  - Developed this project to make prediction of net hourly electrical energy output using feature feature Temperature (T), Ambient Pressure (AP), Relative Humidity (RH) and Exhaust Vacuum (V).
  - Applied the **Gradient Descent Algorithm** of Machine learning to predict the net hourly electrical energy output (EP) using the **scikit-learn** library.Used **Mean Absolute Error** for measurement of the accuracy of the dataset.

- **Handwritten Digit Recognition** (Github) **| Python,Tensorflow,Keras,Numpy,Jupyter Notebook**
  - Developed a Handwritten Digit Recognition to predict the number using the different handwritten digits.
  - Build neural networks using **TensorFlow and keras**. Used the **softmax function** for the numerical stability and **Sparse Categorial Cross-entropy loss function** to make prediction between 0-9.
  - Used **Confusion Matrix** and **Seaborn** for the measure of accuracy of the dataset.

- **Book Recommender Systems** (Github). **| Numpy, Pandas, Jupyter Notebook, Scikit-learn**
  - Developed Recommender System for the books suggestion for the given book using the datasets from **kaggle dataset**.
  - Used **Cosine Similarity** for the similar books and **Pandas** for the data manipulation.

- **Sudoku Solver** *(Github)* **I C++**

  This is used to solve the sudoku problems using the **Backtracking Algorithm** learnt in Data Structure and Algorithm.Used the concept of **Recursion** to design the Backtracking Algorithm and some **File Handling** concepts to output the answer on text file.

ACHIEVEMENTS / HOBBIES

- **Codechef** : 3 Stars with max rating : 1616 (Profile Link).
- Best ranking in the contest (codechef) : **Global Rank 85.**
- Participated in the **Meta Hacker Cup** (Certificate).
- Playing Chess and Reading Books.

RELEVANT COURSES

- **Data Structure**
- **Computer Programming in C++**

Online Courses

- Artificial Intelligence Foundations: Thinking Machines
- Supervised Machine Learning : Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning
- Machine Learning Specialization

EDUCATION

- Electronics and Communication(ECE) | Institute of Engineering & Technology, DAVV

  CGPA: *7.26*|(Nov 2021 - Present)