Ankit Chhetri

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EDUCATION:

Advanced College of Engineering and Management **2021 – 2025(Expected)**

- Bachelor's Degree In Computer Engineering

Relevant Project Work Experience:

Bird Detection System Using Convolution Neural Network

- The project detected 35 endangered Nepalese bird species with accuracy over 75%.
- Responsible for Image Preprocessing and hyper parameter tuning in the project.
- Performed evaluation of image classifier based on different data pre- processing techniques and identified the suitable pre-processing method for the project.

Housing Price Prediction:

- Analyzed Boston Housing Dataset in terms of exploratory data analysis.
- Performed data cleaning and data transformation steps for 506 samples having 13 attributes.
- Identified correlation between features as well as target variable.
- Analyzed metrics of different models (linear, decision tree and support vector regressor) on the cleaned dataset.

Application of Linear algebra, probability and statistics in a MNIST dataset classification.

- Performed covariance matrix computation, eigen value eigen vector and PCA on MNIST dataset.
- Visualized data distribution of each digit and found out the different data patterns for each digit
- Identified that the neural network classifies digits using conditional probability.
- Plotted mean image distribution to get the mean values of each digit.

4 queen Problem:

- The project's goal was to place 4 queens in a chess board such that no queens attack each other. (Constraints – no two queens are placed on same row, same column and same diagonal).
- Solved the problem using backtracking in C++.
- Used Recursive call for state space exploration.
- Found out the time and space complexity of the problem

Coursework:

- Artificial intelligence, Data Structure and Algorithms, Numerical Methods, Engineering Mathematics (I,II,II,IV), C++,C ,Database Systems, Digital Signal Analysis and Processing.
- Linear Algebra, Probability And Statistics for Machine Learning with project based application

TECHNICAL QUALIFICATIONS:

- Programming Language: Python, MATLAB ,C++, C
- Framework and Tools : Py-Torch, Keras ,Tensor Flow, Sci- kit, Sci-py, Pandas, Numpy, Matplotlib, Seaborn, MYSQL, MS SQL server, Git
- Operating systems –Windows OS

Interests:

- Music, Mental math, Trekking, Reading, Volunteer works