**AI Lab. Examination – 2023 (Even Semester)**

**Answer any two**

1. Predict canada's per capita income in year 2020. You will find canada\_per\_capita\_income.csv file. Using this build a regression model and predict the per capita income for canadian citizens in year 2020. Find out the accuracy of your model also.
2. There is **hiring.csv**, this file contains hiring statics for a firm such as experience of candidate, his written test score and personal interview score. Based on these 3 factors, HR will decide the salary. Given this data, you need to build a machine learning model for HR department that can help them decide salaries for future candidates. Using this predict salaries for following candidates,

**2 yr experience, 9 test score, 6 interview score**

**12 yr experience, 10 test score, 10 interview score**

1. Using the dataset carprices.csv predict the following –

**1) Predict price of a mercedez benz that is 4 yr old with mileage 45000**

**2) Predict price of a BMW X5 that is 7 yr old with mileage 86000**

**3) Tell me the score (accuracy) of your model.**

1. Using ANN predict the hand written digits from MNSIT dataset and find out the accuracy.
2. Using CNN predict the hand written digits from MNSIT dataset and find out the accuracy.