# INTRODUCTION TO ARTIFICIAL INTELLIGENCE

## CSCI – 6660-01

## TERM PROJECT – PROPOSAL SUBMISSION

---


## Students

**Snehal Jadhav (00798842)**

**Akhila Parankusham (00810899)**

**Prabhusharmila Tummalapalli (00810664)**

## Professor

**Shivanjali Khare**

# PROJECT TOPIC

## OLD CAR PRICE PREDICTOR


“Our initiative utilizes a spectrum of regression algorithms to estimate a car's market value, ensuring a seamless experience in providing the most accurate and user-friendly price quotes.”

# PROJECT OBJECTIVES

- This project acts as a middleman between a “customer” and a “car owner” to help get a better price for the car.
- The primary focus is to assist customers in obtaining the best possible deal when selling an old car.
- This project employs machine learning techniques to ensure the best possible outcomes.

# APPROACH

**TOOLS AND TECHNIQUES**

- Data Gathering
- Data Extraction
- Training
- Model Evaluation
- Data Cleaning

**LIBRARIES**

- Pandas
- NumPy
- SciPy
- Matplotlib

**ALGORITHMS**

- Linear Regression
- Polynomial Regression
- Lasso and Ridge Regression
- Decision Tree
- Random Forests
- XGBoost

**PACKAGES**

- String
- Random

# DELIVERABLES

- Dataset
- Exploratory Data Analysis(EDA)
- Removal of Unwanted EDA files
- Data Cleansing

# EVALUATION METHODOLOGY

- Predicting the accurate price of the car.
- To assess the performance of our algorithms, essential evaluation metrics, including R-squared (R2), Root Mean Square Error (RMSE), and Mean Absolute Error (MAE) can be used.