

## UNIT 2. Week 2.

This week's focus was on mastering Exploratory Data Analysis (EDA) and understanding datasets through feature exploration. I learned to spot anomalies in the data and gained valuable insights using visual analysis techniques.

The week began with diligent reading of recommended sources to prepare for the tasks ahead.

In Collaborative Discussion 1, I actively engaged by providing peer reviews to fellow participants' initial posts.

Next, I completed Seminar Preparation tasks, exploring Jupyter Notebook on EDA. I applied EDA techniques to the Auto-mpg dataset, handling missing values, estimating Skewness and Kurtosis, and visualising correlations through a Heat Map. I also created Scatter plots to compare different parameters effectively. To make the data machine-learning-ready, I replaced categorical values with corresponding numerical values.

The week concluded with an enlightening Seminar, where I had the pleasure of meeting Professor Nadeem Qazi. His deep knowledge and passion for the subject inspired everyone present.

As a result of that productive week, I achieved several key learning outcomes. Despite the fact that the topic of EDA was not new to me, I still went through the learning path. It helped me to refresh my memory and identify new things.