**Prototype Phase -   
Instructor Dashboard for E-Learning Systems using Machine Learning**

**Problem Statement**

This prototype phase is a continuation of your project in which you will need to work on data pre-processing. You will need to perform the following steps: -

1. Download the dataset [Open University Learning Analytics dataset](https://archive.ics.uci.edu/dataset/349/open+university+learning+analytics+dataset).
2. Create a Student Assessment csv file that contains the following fields: -

* Student\_id
* Highest\_education
* Age\_band
* Number\_of\_previous\_attempts
* Region
* Disability
* Code\_module
* Assessment\_score
* Student\_sum\_click
* Student\_final\_result (OUTPUT variable)

1. Populate the data from the dataset in student assessment csv file.
2. After copying the data, then performs the following tasks on student assessment csv file.

* Handling Missing Values
* Removing Duplicates
* Handling Outliers
* Normalization/Standardization
* Feature Selection

After completion of the prototype phase, submit your work in compressed form on VU LMS before the due date.

**Tools:**

You are free to use MS Excel or Python or any tool, provided that all the functional requirements of the prototype phase are met properly.

**Supervisor:**

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