

**Assignment:** Apply the phases of Data Analytics Life cycle to PG Admission

**Phase 1: Discovery-**

1. Previous years' records in other institutions
2. Previous years' records in the same institution but different courses
3. Inclination of students towards the specified course
4. Surveys/Questionnaires
5. Review of currently studying students in the institute who might opt for the course (in-house admissions)
6. Cutoffs that is to be kept for admission
7. No. of students satisfying the pre-requisites for the required course (qualifications/knowledge-base)

**Phase 2: Data Preparation-**

This phase involves the aggregation of the data acquired through the various sources and combining them together. Data can be extracted from the forms and stored as a structured relational database. It also involves the processing and conditioning of the data for preliminary results from the sandbox.

**Phase 3: Model Planning-**

Breaking down the data and the related tasks among different groups. Determining the relationships between the data, removing unnecessary data, and finalizing the key variables. Each group can be assigned to perform data analysis and specific model implementation.

**Phase 4: Model Building-**

Determination of the hardware and software requirements, creation of datasets for training and testing, and beginning the implementation and execution of the formerly-assigned models. Fine-tuning of models and further feature extraction can be performed.

### **Phase 5: Communicate Result-**

The results obtained from the previous stage from each group can be compared and a final model can be selected which gives promising results with better precision and accuracy.

### **Phase 6: Operationalize-**

This phase involves the generation of the report, documentation, and delivering the final outcomes in a production-environment.