

Instructional Design Skills Assessment

- **Course: Data Science – Deep Learning Career Track**

Question 1. Course Development and Launch Planning

Ans:

1. Project Scope:

- What resources are you able to provide to the project from a subject matter expertise standpoint?
- Within how much time should the course be delivered in eLearning mode?
- Who are the target learners for this course?

2. Course Content:

- What existing resources/practices/training/aids are currently available on this topic?
- What do learners need to know in order to get a desired outcome?
- What topics shall this course cover?

3. Course Development:

- What effective and ineffective information needs to be catered to the learners?
- Who needs to review this course and how much time is required to provide feedback?
- What are the learning objectives?

4. Course Delivery:

- Through which medium/method will the course be delivered to the learner?
- Do learners need to complete this course by a certain date? If so, why?
- Why is the course important for the learner?

5. Business Goals:

- What goals or metrics can be most affected by this course?
- What behaviours have the most positive effect on these goals or metrics?
- How much of an effect would this course have on the learners?

Question 2. Instructional Review of Existing Curriculum

A. What are the learning outcomes for this section?

- Critically reflect upon different data sources, types, formats and structures.
- Justify and apply data cleaning, pre-processing, and standardisation for data analytics.
- Apply data integration concepts and techniques to heterogeneous and distributed data.
- Analyse and interpret data using an ethically responsible approach.
- Understand and be able to use advanced data wrangling, data integration, and database techniques as relevant to data analytics.

B. Based on your quick review, what are the top three improvements you'd recommend to this curriculum from an Instructional Design point of view?

1. **Duration of videos:** Videos increase knowledge retention, since they can be stopped and replayed as many times as needed. They can also be reviewed long after the initial lesson was taught and be kept short and simple.
2. **Discussion rooms:** The goal of this work is to identify and categorize benefits, difficulties, strategies, and solve doubts if any after end of every module with the mentor.
3. **Short quizzes:** The learners can take up short quizzes after completion of certain modules and track their learning progress and can accordingly estimate their understanding of the concept.