

Capstone Project Definition and Mentoring for Data Sciences Programs

A leading Institute of Higher Education and a deemed University offers an 11 month online Post Graduate Program in Artificial Intelligence and Machine Learning for working professionals.

The course includes an 8-week Capstone project where students solve a business problem using Data Sciences under the mentorship of the institution's faculty members and industry experts.

The institution was looking for a partner to provide industry experts for the Capstone project who could bring in industry related business problems and a rich set of industry datasets across different domains and provide mentoring to the students.

Striatum was selected as a partner of choice by the institution to deliver the problem statements to the student groups (each group comprised of 4 students). The scope of work included:

- a. Preparation of the data sets from industry projects and formulation of at-least two different problem statements on the project domain. Problem statement was expected to be an implementation encompassing all or any combinations of the below Artificial Intelligence & Machine Learning concepts:
 - i. Feature Engineering
 - ii. Classification
 - iii. Regression
 - iv. Unsupervised Learning & Association Rule Mining
 - v. Text Mining
 - vi. Deep Learning & Artificial Neural Networks
- b. Verification and confirmation of the synopsis to the proposed solutions, submitted by the groups of students within a week of submissions.
- c. Mentoring of the students through weekly discussion forums.
- d. Ensuring successful completion of student's projects by providing the required inputs/feedback.
- e. Reviewing the project work of the groups of students on a fortnightly basis along with the faculty examiner.
- f. Conducting the viva along with the faculty examiner at the end of the course and submitting the evaluation marks as requested by the faculty examiner.
- g. Submission of the solution to the problem statement at the end of the course.

The institution has received positive feedback from the students and faculty for the mentoring provided by Striatum industry experts. The Capstone project is fast edging towards completion for the student groups.