

## CAPSTONE PROJECT GUIDELINES

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The Capstone Project is an integral part of the Advanced Programme in AI and MLOps that provides an opportunity to implement a full-length project, from gathering data to building a solution and demonstrating it as a standalone application.

Following steps are involved in the Capstone Project

1. Identifying the Problem statement
2. Data gathering, cleaning
3. Data exploration and feature engineering
4. Data-driven model selection
5. Training and Testing
6. Deployment (data engineering, app-building etc)
7. Presentation of solution and driving insights (explaining to customers)

### Important Guidelines:

1. The Capstone teams are the same as the Mini-project teams, unless a change is requested (before submission of project proposal).
2. We will provide 16 projects (including problem statements and datasets). Teams are encouraged to bring their own projects as well.
3. More than one group can work on the same project.
4. The project will carry a total weightage of 240 points.
5. It is mandatory to work with a public dataset. Anonymized data with proper written formal permissions from the concerned authority are admissible. We will not be a part of any NDA agreement.
6. Project Proposal: It will consist of a 3-5 pages document, covering the title, problem statement, objectives, methodologies, possible outcomes, and applicability in the real world. Please refer to the provided Project Proposal Template on LMS under Capstone Project module.
7. Mentoring sessions to guide you during the Capstone Project will be conducted as per the Program schedule.
8. On the Capstone Final Presentation day, each group will be given 30 minutes for their presentation. Faculty will evaluate the presentations and provide their feedback to each group.

## Project Timelines and Points

S. No.	Activity	Date(s)	Points (240)
1.	Release of IISc-TS Capstone project statements	Apr 12, 2024	-
2.	Submission of project title, objective, dataset (IISc-TS projects <b>or</b> own project) to be shared by participants through email to <a href="mailto:aimlops.support@talentsprint.com">aimlops.support@talentsprint.com</a> .	Apr 27, 2024	-
3.	Final team numbers, members and project titles announcement on LMS	May 4, 2024	-
4.	Project Proposal submission	May 18, 2024	25
5.	Capstone Project – Mentored session 1	Jun 23, 2024	10
6.	Capstone Project – Mentored session 2	Jun 30, 2024	10
7.	Capstone Project – Mentored session 3	Jul 7, 2024	10
8.	Capstone Project – Mentored session 4	Jul 14, 2024	10
9.	Final Report and Data Story	Jul 16, 2024	25
10.	Final Presentation*	Jul 20-21, 2024	150

### Note:

#### Final Presentation Points (150) break-up:

i. Technical correctness – 75

- (a) 30 points for following the plan including choosing the right model
- (b) 30 points for other technical correctness
- (c) 15 points for handling edge cases and thinking about issues

ii. Quality of presentation and delivery – 50

iii. Audience score – 25

Please take note of the following:

- **Optimizing Compute Resources:** When working on your capstone project, it is important to consider factors such as data size and compute requirements for training and inference to ensure cost-effectiveness. We encourage you to strategize and find ways to minimize costs while achieving excellent results.
- **Self-Managed Resources:** Please be aware that individual capstone teams are responsible for managing their computing resources and other project requirements independently. TalentSprint will not provide any compute resources, hosting services, or access to cloud platforms (such as AWS, GCP, Azure, etc.) for the capstone project.

**Note:** The AWS account to be provided by TalentSprint is exclusively available for performing labs and is not intended for use in the Capstone project.