

Project Proposal

The proposal consists of 2 pages of text, a third page for the bibliography and fourth page only if a figure is needed. The figure should be on page 4 after the bibliography. The 2 text pages should include items 1 to 5 below.

Project should include:

- 1) A suitable title
- 2) A clear statement of the proposed research
- 3) A summary of relevant literature using the reference (motivation and significance)
- 4) Explain the data set used and how it is collected.
- 5) Explain the method used
- 6) Bibliography of references – third page.

Here is a template for the above points. **To be marked, the proposal must follow the template. Use the subject headings given in bold type below:**

TITLE:

Give a clear title for the proposal

Statement of research proposal

This should be a number of sentences long that summarize the work to be done in very clear terms. You could begin with, “We propose....”
The details regarding motivation and significance are dealt with in the next section

Motivation and significance

Here your bibliography is used to motivate why you chose the proposed work described in the **Statement of research proposal**. Describe the significance of the work to be done

Data to be used in the work and how it will be collected

Here present what data will be used and how it will be collected.

Method Used in the Research

Which machine learning tools/ computer algorithms will be used? Why did you make these choices—what is your justification? How will they be used? What mathematics is used within the tools that you are employing (regression, aspects of deep learning). How did you make these choices.

Bibliography

Include at least 10 references here

Rubric for **Proposal** (2 pages of text maximum)—Bibliography on the third page and a figure if needed on the fourth page; Space used is given approximately by percentages for marking - 45% of your abstract should answer point 4. below

1. Is the literature analysis for the research clearly presented using the references chosen. [motivation and significance] (20%)

Use references to at least 5 refereed journal articles (including ARXIV) to justify the research direction chosen.

2. Is the machine learning problem formulation for the research proposal report clear? (15%- 5% for title)

“We propose...”.

3. Explain the proposed data set used and how to collect it if needed. 10%)

Present here the data set to be used for the project. Describe any data cleaning to be used.

4. Explain the method to be used including any equations and computer algorithms to be implemented, with statement of necessary compute resources. (45%)

Which machine learning tools/algorithms will be used? Why did you make these choices—what is your justification? How will they be used?

5. Give a list of References – at least 10 references – 5 chosen from refereed journal articles. (5%) (

6. Overall clarity of presentation (5%).