




[◀ Return to Classroom](#)

Write Up a Capstone Proposal

REVIEW

HISTORY

Meets Specifications

Udacity Student 

Really a great job on your project. You have done awesome work here. 🙌

As a reference, I would like to share some articles and resources to boost your learning:

[Python Clean Code: 6 Best Practices to Make Your Python Functions More Readable](#)

[Tech Book Talk: Clean Code in Python](#)

[Introduction to MLOps](#)

[A Gentle Introduction to AWS SageMaker — ML & AI on the Cloud](#)

[Sagemaker](#)

I really hope you liked the project as we mentors did, and we are looking forward to your next step!

Project Proposal

Student briefly details background information of the domain from which the project is proposed. Historical information relevant to the project should be included. It should be clear how or why a problem in the domain can or should be solved. Related academic research should be appropriately cited. A discussion of the student's personal motivation for investigating a particular problem in the domain is encouraged but not required.

Project Proposal

Background

Great! 😊

You have detailed the background information of the domain from which the project is proposed

EXTRA READING

[How To Write A Top ML Paper](#)

[How to Read Machine Learning Papers Easily](#)

Student clearly describes the problem that is to be solved. The problem is well defined and has at least one relevant potential solution. Additionally, the problem is quantifiable, measurable, and replicable.

Project Proposal

Problem Statement

Awesome! 😊

You have elaborated the problem statement with a clear goal.

[How To Approach Problem Definition In Your Next Deep Learning Project](#)

[How to Define Your Machine Learning Problem](#)

Student clearly describes a solution to the problem. The solution is applicable to the project domain and appropriate for the dataset(s) or input(s) given. Additionally, the solution is quantifiable, measurable, and replicable.

Project Proposal

Solution

You have also provided a solution to the proposed problem with details, including the frameworks to be used and the steps you want to apply.

The dataset(s) and/or input(s) to be used in the project are thoroughly described. Information such as how the dataset or input is (was) obtained, and the characteristics of the dataset or input, should be included. It should be clear how the dataset(s) or input(s) will be used in the project and whether their use is appropriate given the context of the problem.

Project Proposal

Dataset

Great! The dataset and inputs to used are explained with details.

EXTRA READING

[5 Real World datasets for honing your Exploratory Data Analysis skills](#)

[17 DATA VISUALIZATION TECHNIQUES ALL PROFESSIONALS SHOULD KNOW](#)

[Must Known Data Visualization Techniques for Data Science](#)

A benchmark model is provided that relates to the domain, problem statement, and intended solution. Ideally, the student's benchmark model provides context for existing methods or known information in the domain and problem given, which can then be objectively compared to the student's solution. The benchmark model is clearly defined and measurable.

Project Proposal

Benchmark

You provided a benchmark model with a metric to achieve.

Student proposes at least one evaluation metric that can be used to quantify the performance of both the benchmark model and the solution model presented. The evaluation metric(s) proposed are appropriate given the context of the data, the problem statement, and the intended solution.

Project Proposal

Evaluation Metrics

Great! The metrics are important to set how well your model is performing. You can propose a variety of metrics, including statistical or business metrics, that are relevant to the project.

EXTRA READING

- 20 Popular Machine Learning Metrics. Part 1: Classification & Regression Evaluation Metrics
- 20 Popular Machine Learning Metrics. Part 2: Ranking, & Statistical Metrics

The proposal follows a well-organized structure and would be readily understood by its intended audience. Each section is written in a clear, concise and specific manner. Few grammatical and spelling mistakes are present. All resources used and referenced are properly cited.

Project Proposal

Project Structure and Organization

Great! Your proposal follows a well-organized structure and would be readily understood by its intended audience. Each section is written in a clear, concise, and specific manner.

Student summarizes a theoretical workflow for approaching a solution given the problem. A discussion is made as to what strategies may be employed, what analysis of the data might be required, or which algorithms will be considered. The workflow and discussion provided align with the qualities of the project. Small visualizations, pseudocode, or diagrams are encouraged but not required.

Project Proposal

Workflow

Great!

 [DOWNLOAD PROJECT](#)

RETURN TO PATH

Rate this review

START

