

# **The Title of the Project**

by

**Student's Name**

A Project Proposal Submitted  
in  
Partial Fulfillment of the  
Requirements for the Degree of  
Master of Science  
Supervised by

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Month Year

The project proposal “The Title of the Project” by Student’s Name has been examined and approved by the following Examination Committee:

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Dr. Felix Frankfurter  
Assistant Professor  
Project Committee Chair

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Dr. Learned Hand  
Associate Professor

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## **Dedication**

To whoever...

## **Acknowledgments**

I am grateful for ...

## **Abstract**

**The Title of the  
Project**

**Student's Name**

**Supervising Professor: Dr. Felix Frankfurter**

This should be a short description of the work and the results: about 250 words in a paragraph or two summarizing your project. Note that abstracts are meant to be read independently from the rest of the project report so you cannot cite your paper or other papers in it. It would be useful to examine other abstracts in the papers you have read to understand what an abstract really is.

In the proposal, the abstract should just say what you will do. In the report, the abstract must say what you did briefly. This template can be used for both the proposal and the report.

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# 1 Introduction

Briefly tell why the problem is important and the solution is beneficial. Introduce the remaining sections, giving a brief overview of each.

And yes, this is how you cite a certain book (Silberschatz et al., 2005) or a paper by Dumont et al. (2007). The difference between these two citation forms is that for the first one I said `\citep` (meaning citation in parentheses), while for the second I said `\citet` (meaning citation in text).

And here are examples of how to include figures, such as Figure 1, and tables in the text. Please note that the captions go below for figures and above for tables.



Figure 1. The iSchool Logo is Above

To refer to figures in your text, please do not write the figure number directly. Instead, use a label inside the figure specification and a `\ref{}` directive in the text. For example, the above figure was referenced as Figure 1 by typing

Figure `\ref{fig:ischoollogo}`

in the body of the document. Look at the source file `main.tex` to see this.

Table 1. The Dog Table is Below

tag	breed	age	desc
13	Fido	2	This is a very good doggie and I love him very much.
14	Fifi	4	This is a very naughty doggie but I love her anyway.

For both tables and figures, the optional argument controls placement as shown:

- `h` is Here, i.e., the position in the text where the table environment appears.

- t is Top, i.e., the top of a text page.
- b is Bottom, i.e., at the bottom of a text page.
- p is Page of floats, i.e., on a separate float page, which is a page containing no text, only floats.

## 1.1 Notes

Some helpful notes include the following:

1. This format (see the `main.tex` file) allows numbered lists.
2. You should use `\section{}` commands as well as those for subsections and sub-subsections rather than defining headings by adding boldface directives or underline directives. The formatting for this file was selected for a reason and adding extraneous formatting distracts you from the content of the file as well as defeating the purpose of the template.
3. You should try to let the paragraph formatting stand as is rather than including a lot of `\\` commands in your text to create artificial linebreaks.
4. You should concentrate on the content of your file and refer formatting questions to Mick McQuaid, `mickmcquaid@gmail.com`, rather than trying to play around with the format.
5. If you insist on playing around with  $\LaTeX$ , you should at least read the *Not so Short Intro to  $\LaTeX$*  instead of relying on Stack Overflow and patching together a Frankenstein document.
6. You should comment out some sections for the proposal and other sections for the report. You will find a `\MSproposaltrue` command in the `main.tex` file. Comment that out when you go from proposal to report. Be sure to save a pdf of your proposal before you switch to creating the report!
7. In  $\LaTeX$ , you can comment anything out with a percent sign. That means you have to escape the percent sign if you want to display it in text.

## 2 Related Work

Survey the relevant literature.

This section is largely copied and pasted from your proposal to your report if it was a thorough literature review but you may update it.

Organize the literature survey around themes rather than the extremely undesirable approach of devoting a paragraph to each paper surveyed. Each theme should have a few papers around it.

Here's a citation of a website (Brignull, 2010).

Since I need to illustrate several items in the bibliography, I'll do a cite for these references (Bayliss et al., 2008; Dumont et al., 2007; Elmasri & Navathe, 2006; Ericson et al., 2007; Silberschatz et al., 2005).

Try to follow the author-date format for the keys to your bibliography, so that it is easy to tell what you are referring to in the body of the document.

Here's an example of an inline equation.

Integrating  $p(x)$  over a specific set of points gives the probability mass of that set. In the univariate example, the probability that  $x$  lies in the interval  $[a, b]$  is given by  $\int_{[a,b]} p(x)dx$ .

Here are two examples of displayed equations.

For discrete variables

$$\mathbb{E}_{x \sim P}[f(x)] = \sum_x P(x)f(x) \quad (1)$$

For continuous variables

$$\mathbb{E}_{x \sim p}[f(x)] = \int_x p(x)f(x)dx \quad (2)$$

### 3 Methodology

Summarize what you have done but not the outcomes.

If you want to include code fragments, please do not include screenshots. Instead, copy and paste the code fragment as follows:

```
\begin{minted}{python}
# Create an instance of Lasso Regression implementation
lasso = Lasso(alpha=1.0)
# Creating model
lr = lasso.fit(train_inputs, train_targets)
# Generate predictions (validation data)
pred_valid2 = lr.predict(val_inputs)
# WMAE for validation data
WMAE_valid2 = WMAE(val_inputs, val_targets, pred_valid2)
print('WMAE Validation Dataset: {}'.format(WMAE_valid2))
\end{minted}
```

which will be rendered as

```
# Create an instance of Lasso Regression implementation
lasso = Lasso(alpha=1.0)
# Creating model
lr = lasso.fit(train_inputs, train_targets)
# Generate predictions (validation data)
pred_valid2 = lr.predict(val_inputs)
# WMAE for validation data
WMAE_valid2 = WMAE(val_inputs, val_targets, pred_valid2)
print('WMAE Validation Dataset: {}'.format(WMAE_valid2))
```

If you *must* have a dark background for your code listings, you may add something like the following

```
\usemintedstyle{monokai}
\definecolor{darkbg}{HTML}{282828} % from https://github.com/kevinsawicki/monokai
\setminted{bgcolor=darkbg}
```

to the preamble in `main.tex`. A complete list of color themes can be found at [https://www.overleaf.com/learn/latex/Code\\_Highlighting\\_with\\_minted#Reference\\_guide](https://www.overleaf.com/learn/latex/Code_Highlighting_with_minted#Reference_guide).

If you want to include your code from a separate file, the `minted` package can handle that. You can say, for instance,

```
\inputminted{python}{mygreatcode.py}
```

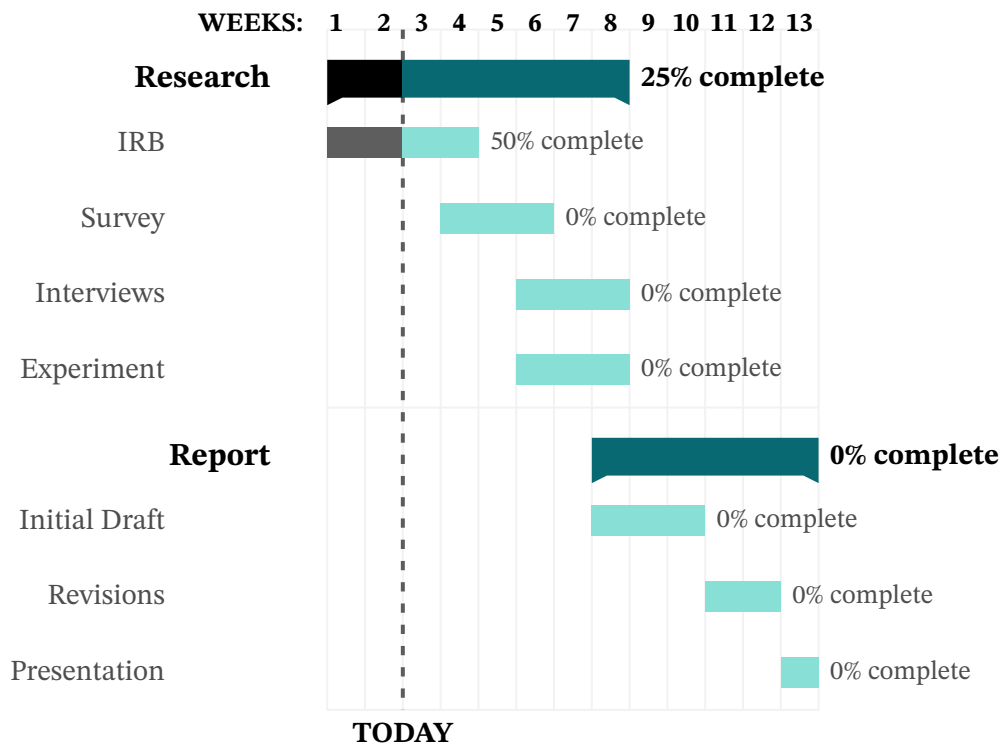
in your appendix file, assuming that the file `mygreatcode.py` is in the same folder. Or, better yet, link to the live copy of it so that if you change the code, the documentation is automatically updated. Of course, you can't easily do that on Overleaf since you can't run your Python code on Overleaf so, unless you compile the document on your own machine, just make sure to upload the latest version of the code to Overleaf.

If you want to include a line of code in the body of the document, say, for example, `\mintinline{python}|import this|` to get an effect like `import this`.

## 4 Timeline

Bear in mind that the Timeline should only appear in the proposal version of your document. When you are writing the final report, comment out the line in `main.tex` that includes this file.

Try to understand how to modify the code below rather than including an ugly screenshot of a Gantt chart from another program. It should be clear that you only need to modify the last few lines.



## 5 Results

Tell the specific outcomes of what you've done.

## 6 Conclusion

The conclusion section usually includes the following subsections.

## 6.1 Limitations

## 6.2 Future Work

## 6.3 Lessons Learned

## References

- Bayliss, J., Raj, R. K., & Cromack, J. (2008). Using and assessing games and robotics to teach introductory computing concepts. *SIGCSE '08 Workshop*.
- Brignull, H. (2010). Dark patterns: Dirty tricks designers use to make people do stuff [Retrieved September 29, 2019, from 90 Percent Of Everything website:]. <https://www.90percentofeverything.com/2010/07/08/dark-patterns-dirty-tricks-designers-use-to-make-people-do-stuff/>
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- Elmasri, R., & Navathe, S. B. (2006). *Fundamentals of database systems (5th edition)*. Addison-Wesley Longman Publishing Co., Inc.
- Ericson, B., Guzdial, M., & Biggers, M. (2007). Improving secondary cs education: Progress and problems. *SIGCSE Bull.*, 39(1), 298–301. <https://doi.org/http://doi.acm.org/10.1145/1227504.1227416>
- Silberschatz, A., Korth, H., & Sudarshan, S. (2005). *Database systems concepts, 5th ed.*, McGraw Hill College Division.

## **A UML Diagrams**

This is an optional appendix and can be eliminated if you don't have anything to share here.

## **B Code Listing**

This is an optional appendix and can be eliminated if you don't have anything to share here.



## **C User Manual**

This is an optional appendix and can be eliminated if you don't have anything to share here.