

AI Bootcamp

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# Final Project, Week 1

Module 23 Day 1



# Class Objectives

By the end of class, you will be able to:

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1

List the requirements for the Final Project.

2

Describe the purpose of your project and the problem you aim to solve or analyze.



Time to divide into **teams!**



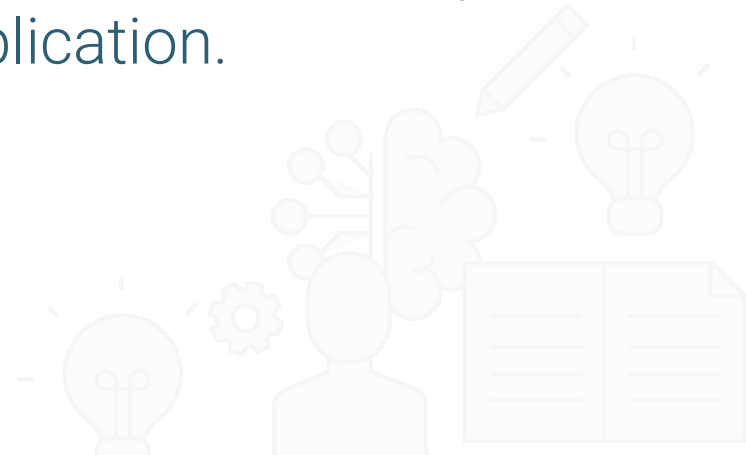


# Introduction to the **Final Project**



## **Project Goal**

Design and build an ANN, CNN, LSTM-RNN, or transformer to apply in a real world application.





# Requirements

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- 1 Implement a model with appropriate preprocessing and data cleaning. (25 points)
- 2 Optimize the model and display the performance. (25 points)
- 3 Document your project using a well formatted GitHub README. (25 points)
- 4 Present findings in a slideshow presentation. (25 points)



## **Project Mindset**

Focus on applying everything you've learned. The requirements are broad to allow plenty of freedom to choose a unique project!



# Advanced ML in Practice

Examples of ML projects that utilize advanced models:

01

Build a recommendation system for books using the data from a library's API.

02

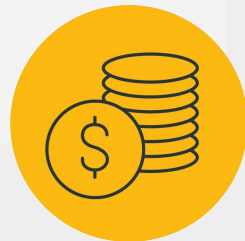
Using satellite imagery and government mining data, find areas that are likely to be instances of illegal mining.

03

Using medical data, build a chatbot that collects relevant symptom information from patients and summarizes it for a doctor.

04

Create an NLP classifier that identifies uses social media posts to determine when an account has been hacked.





# Project Tips

Follow these suggestions to make your project flow smoothly:

01

Start by finding a dataset that has a well defined target column.

02

Explore the data thoroughly using EDA.

03

Within the first few hours, create a stretch goal that is divided into very small, achievable steps.

04

Design your workflow in such a way that you have a working application early on, even if it doesn't do everything you wanted it to yet.

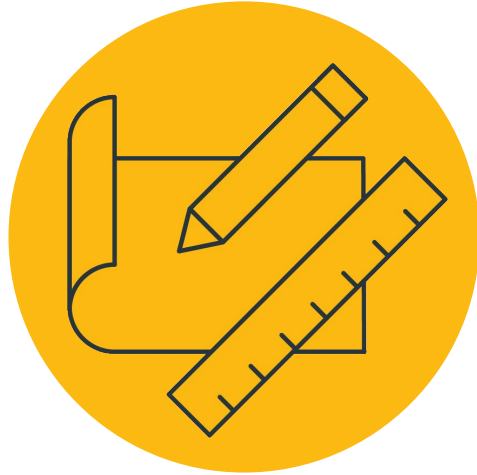
05

As the project comes to a conclusion, make sure to stop your development work and start focusing on presentation work with plenty of time!

06

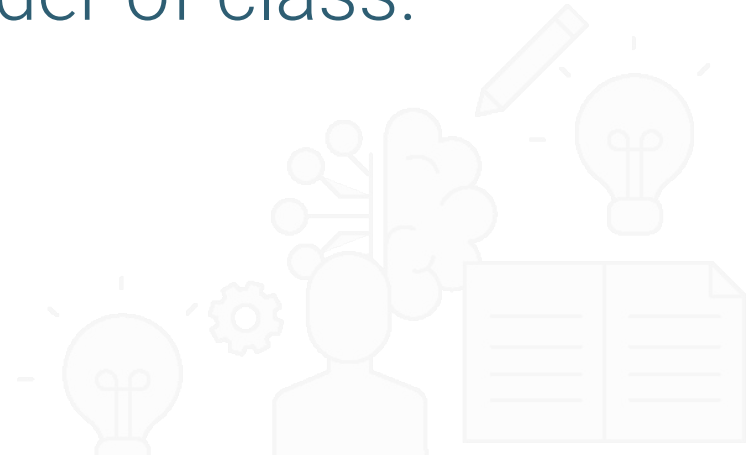
Remember that you can always keep working on your project after the bootcamp is over!





## **Project time!**

Work with your groups  
for the remainder of class.





**Break**

15 mins



## Recap

After today's lesson you are able to:

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1

List the requirements for the Final Project.

2

Describe the purpose of your project and the problem you aim to solve or analyze.



# Next

In the next lesson, you'll continue to work on your project.



**Questions?**





**The End**