

캐글 리더보드에 답안 제출하기

1. 노트북 생성하기

- 문제로 제시된 캐글 리더보드 용 노트북 만들기



YUKYUNG CHOI · COMMUNITY PREDICTION COMPETITION · PRIVATE · 7 DAYS TO GO

Submit Prediction

...

[2025-2][AI-0918] MINST

2025학년도 2학기 인공지능 MNIST 숫자 분류 문제



①

Overview

Data

Code

Models

Discussion

Leaderboard

Rules

Team

Submissions

Settings

Notebooks

🔍 Search notebooks

≡ Filters

All

Your Work

Shared With You

Bookmarks

Recently Run ▼



[2025-2][AI][W3P1] 20250918_최유경

Updated 3m ago

Private · [0 comments](#) · [2025-2][AI-0918] MINST

▲ 0

Draft ...

②

+ New Notebook

1. 노트북 타이틀 변경

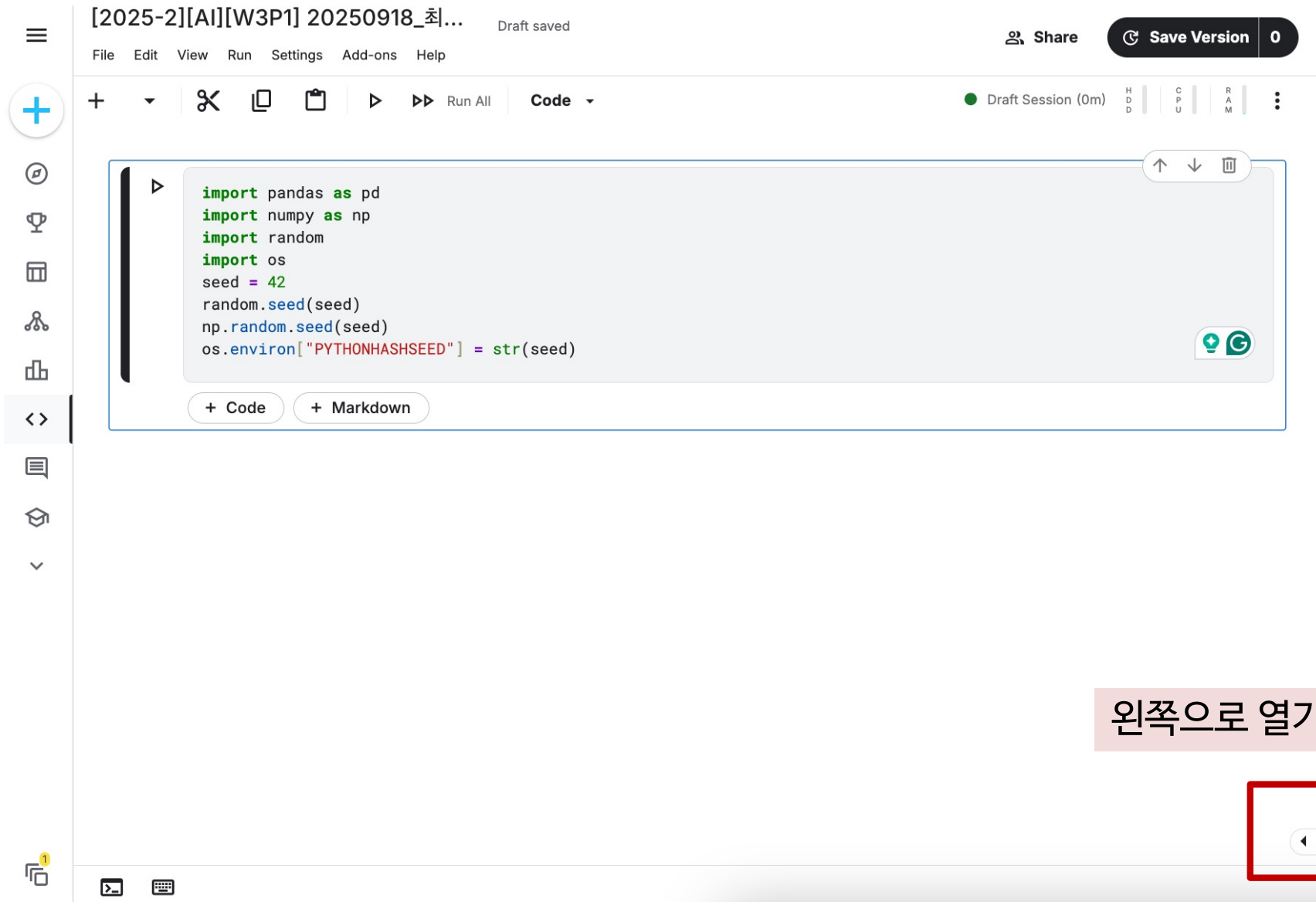
- 노트북 타이틀은 반드시 “양식”에 맞춰서 변경
 - 양식 : [2025-2] [AI] [W3P1] 학번_이름
 - 예) 3주차 문제1 → [W3P1]
 - 예) 5주차 문제2 → [W5P2]

The screenshot shows a Jupyter Notebook interface. The title bar at the top contains the text "[2025-2][AI][W3P1] 20250918_최유경" and "Draft saved". Below the title bar is a menu bar with options: File, Edit, View, Run, Settings, Add-ons, Help. To the right of the title bar are buttons for "Share" and "Save Version 0". Below the menu bar is a toolbar with icons for adding a new cell, undo, redo, copy, paste, and run. The main area contains a code cell with the following Python code:

```
import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

At the bottom of the code cell are buttons for "+ Code" and "+ Markdown".

1. 리더보드 내 데이터 경로 확인



[2025-2][AI][W3P1] 20250918_최... Draft saved

File Edit View Run Settings Add-ons Help

+ - ✂ 📄 📌 ▶ ▶▶ Run All Code ▾

● Draft Session (0m) H D D C P U R A M ⋮

```
import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

+ Code + Markdown

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1

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왼쪽으로 열기 버튼!



1. 리더보드 내 데이터 경로 복사

The screenshot shows a Kaggle notebook titled "[2025-2][AI][W3P1] 20250918_최...". The code cell contains the following Python code:

```
import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

Below the code cell are buttons for "+ Code" and "+ Markdown". On the right sidebar, under the "Notebook" tab, the "Input" section lists three files: "sample_submit.csv", "test.csv", and "train.csv". A red box highlights the "Copy file" button next to "train.csv". Below this, the "Output" section shows the path "/kaggle/wc...".

클릭하여 복사

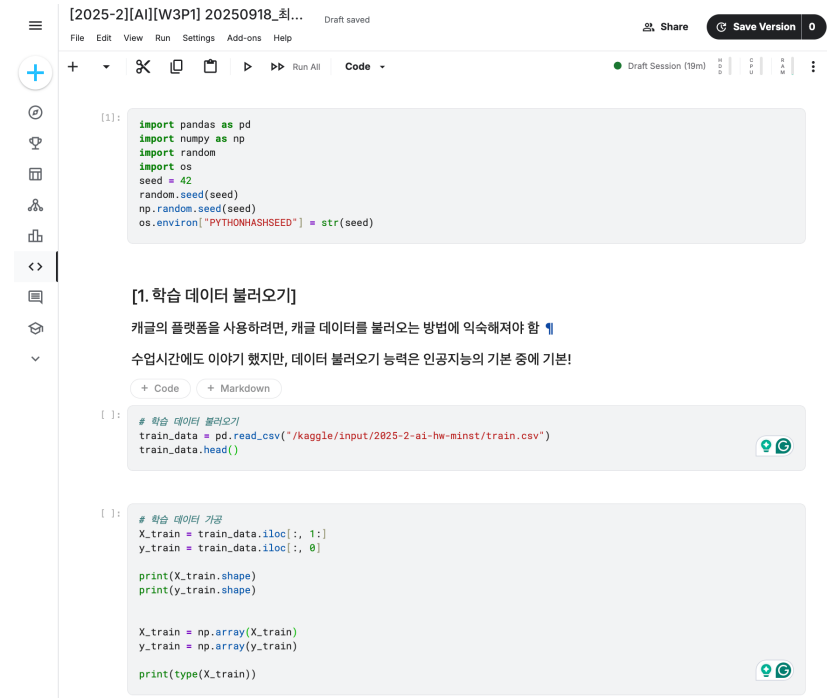
/kaggle/input/2025-2-ai-hw-minst/sample_submit.csv

/kaggle/input/2025-2-ai-hw-minst/test.csv

/kaggle/input/2025-2-ai-hw-minst/train.csv

2. 노트북에 코딩하기

- 리더보드 베이스라인을 참고하여 익히자
 - 학습 데이터셋 불러오기
 - 예측 값 캐글에 제출하기
- 기계학습/인공지능 디자인 패턴에 맞게 프로그램!
 - 라이브러리 설정
 - 학습 데이터셋 불러오기
 - 모델 학습
 - 테스트 데이터셋 정답 예측
 - 예측 값 캐글에 제출



The screenshot shows a Kaggle notebook titled "[2025-2][AI][W3P1] 20250918_최...". The interface includes a menu bar with options like File, Edit, View, Run, Settings, Add-ons, and Help. Below the menu bar, there are icons for adding new cells, undo, redo, and other notebook functions. The main area contains two code cells. The first cell is titled "[1]:" and contains Python code for importing libraries (pandas, numpy, random, os) and setting a random seed. The second cell is titled "[1]:" and contains Python code for loading data from a CSV file using pd.read_csv, and then printing the shape of the loaded data. The notebook is in a "Draft" state, and there are buttons for "Share", "Save Version", and "Run All".

```
[1]: import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)

[1]: # 학습 데이터 불러오기
train_data = pd.read_csv("/kaggle/input/2025-2-ai-hw-minst/train.csv")
train_data.head()

[1]: # 학습 데이터 가공
X_train = train_data.iloc[:, 1:]
y_train = train_data.iloc[:, 0]

print(X_train.shape)
print(y_train.shape)

X_train = np.array(X_train)
y_train = np.array(y_train)

print(type(X_train))
```

참고

<https://www.kaggle.com/code/yukyungchoi/2025-2-ai-w3p1-20250918> ← 아직 비공개라 접근이 어려우면
<https://www.kaggle.com/code/codingchi1d/baseline-hjyang> ← 아래의 링크 참고

3. 코딩 후 저장하기

1

Save Version 0

[2025-2][AI][W3P1] 20250918_최유경

Draft saved

File Edit View Run Settings Add-ons Help

+ - ✂ 📄 ▶ ▶▶ Run All Code

[1]:

```
import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

[1. 학습 데이터 불러오기]

캐글의 플랫폼을 사용하려면, 캐글 데이터를 불러오는 방법에 익숙해져야 함 📖

수업시간에도 이야기 했지만, 데이터 불러오기 능력은 인공지능의 기본 중에 기본!

+ Code + Markdown

[]:

```
# 학습 데이터 불러오기
train_data = pd.read_csv("/kaggle/input/2025-2-ai-hw-minst/train.csv")
train_data.head()
```

[]:

```
# 학습 데이터 가공
X_train = train_data.iloc[:, 1:]
y_train = train_data.iloc[:, 0]

print(X_train.shape)
print(y_train.shape)

X_train = np.array(X_train)
y_train = np.array(y_train)

print(type(X_train))
```

2

Save version

[2025-2][AI][W3P1] 20250918_최유경

Version #1

Running: just now

...

[2025-2][AI][W3P1] 20250918_최유경

Interactive Session

Cancelled

37 minutes

...

1 Active Event

VERSION NAME

Version 1

9 / 50

VERSION TYPE

Save & Run All (Commit)

Run a fresh copy of your notebook and save the output

Advanced Settings

Cancel

Save

3. 코딩 후 저장 중]

실행 중인 런타임 시간 확인 가능

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▼

🔍 Search

YUKYUNG CHOI · 3M AGO · 1 VIEW · PRIVATE

▲ 0

🔒 Share

✎ Edit

⋮

[2025-2][AI][W3P1] 20250918_최유경

✎

Notebook

Input

Output

Logs

Comments (0)

Settings

Notebook actively running...

View the active status under the [logs](#) tab

3. 저장 중 로그 확인

실행 로그 확인?

☰

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<>

🗨️

🎓

⌵

🔍 Search

YUKYUNG CHOI · 4M AGO · 4 VIEWS · PRIVATE

▲ 0

🔒 Share

✎ Edit

⋮

[2025-2][AI][W3P1] 20250918_최유경

✎

Notebook

Input

Output

Logs

Comments (0)

Settings

Logs

Running for 247.4s

Accelerator
None

Environment
[Latest Container Image](#) 🔄

Output
0 B

Time	#	Log Message
7.7s	0	0.00s - Debugger warning: It seems that frozen modules are being used, which may
7.7s	1	0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
7.7s	2	0.00s - to python to disable frozen modules.
7.7s	3	0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
8.8s	4	0.00s - Debugger warning: It seems that frozen modules are being used, which may
8.8s	5	0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
8.8s	6	0.00s - to python to disable frozen modules.
8.8s	7	0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.

모델의 예측 값을 담은 출력파일 캐글에 제출하기

[illegible]

3. 실행 후 답안 제출

답안 제출?

Kaggle interface showing the competition page for [2025-2][AI-0918] MINST. The left sidebar has a 'Code' tab selected. The main area shows 'Output Data' for 'predict_submit.csv' with a table of 9 rows.

id
1
2
3
4
5
6
7
8
9

X Submit to Competition

File Upload Notebook



[2025-2][AI-0918] MINST

You have 50 submissions remaining today. This resets in 14 hours.

SELECT NOTEBOOK

[2025-2][AI][W3P1] 20250918_최유경

NOTEBOOK VERSION

Version 4

OUTPUT FILE

predict_submit.csv

SUBMISSION DESCRIPTION

리더보드 첫번째 제출



11 / 500

Cancel

Submit

3. 실행 후 답안 제출

답안 제출?

Kaggle

+ Create

- Home
- Competitions
- Datasets
- Models
- Benchmarks
- <> Code
- Discussions
- Learn
- More

Your Work

VIEWED

- [2025-2][AI-0918] MI...
- [2024-1][DL][W5P5] ...
- [2024-1][DL][W5P3] ...
- [2024-1][DL][W5P2] ...
- [2025-2][AI-0918] Iris
- View Active Events

Search

YUKYUNG CHOI · 6M A

[2025-2][AI-0918] MINST

Notebook Input

Output Data

predict_submit.csv

id
1
2
3
4
5
6
7
8
9

X Submit to Competition

File Upload Notebook



[2025-2][AI-0918] MINST

You have 50 submissions remaining today. This resets in 14 hours.

SELECT NOTEBOOK

[2025-2][AI][W3P1] 20250918_최유경

NOTEBOOK VERSION

Version 4

OUTPUT FILE

predict_submit.csv

SUBMISSION DESCRIPTION

리더보드 첫번째 제출



11 / 500

Cancel

Submit

3. 실행 후 답안 제출

리더보드에 평가 결과 표기하기

+ Create

Home

Competitions

Datasets

Models

Benchmarks

Code

Discussions

Learn

More

Your Work

VIEWED

[2025-2][AI-0918] MI...

[2024-1][DL][W5P5] ...

[2024-1][DL][W5P3] ...

[2024-1][DL][W5P2] ...

[2025-2][AI-0918] Iris

View Active Events



YUKYUNG CHOI · COMMUNITY PREDICTION COMPETITION · PRIVATE · 6 DAYS TO GO

Submit Prediction



[2025-2][AI-0918] MINST

2025학년도 2학기 인공지능 MNIST 숫자 분류 문제



Overview Data Code Models Discussion Leaderboard Rules Team Submissions Settings

Submissions

Select up to 2 submissions that will count towards your final leaderboard score. If less than 2 are selected, Kaggle will automatically select from your best scoring submissions. [Learn More](#)

0/2

Auto-selection candidates ?

All

Successful

Selected

Errors

Recent ▼

Submission and Description



[2025-2][AI][W3P1] 20250918_최유경 - Version 4

Complete · 21s ago · 리더보드 첫번째 제출

Public Score ⓘ

Select

0.96400



4. 노트북 공유 전 확인 사항

- 노트북에 성능 기록이 되어 있는지 **“반드시”** 확인하기

The screenshot shows a Kaggle Competition Notebook interface. The notebook title is "[2025-2][AI][W3P1] 20250918_최유경". The competition is "[2025-2][AI-0918] MINST". The "Public Score" is 0.96400, and the "Best Score" is 0.96400 V4. The notebook is a "Competition Notebook". The code in the first cell is:

```
In [1]: import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

The second cell contains the following text:

[1. 학습 데이터 불러오기]

캐글의 플랫폼을 사용하려면, 캐글 데이터를 불러오는 방법에 익숙해져야 함

수업시간에도 이야기 했지만, 데이터 불러오기 능력은 인공지능의 기본 중에 기본!

The code in the second cell is:

```
In [2]: # 학습 데이터 불러오기
train_data = pd.read_csv("/kaggle/input/2025-2-ai-hw-minst/train.csv")
train_data.head()
```

The right sidebar shows the "Runtime" (3m 21s), "Input" (COMPETITIONS), "Tags" (Add Tags), "Language" (Python), and "Table of Contents" (1. 학습 데이터 불러오기, 2. 모델 학습, 3. 학습된 모델을 사용하여 테스트 데이터.., 4. 예측된 클래스 정보를 파일로 저장하여..).

4. 채점을 위해 노트북 공유하기

- 교수님, 조교 계정 추가하기

The screenshot displays a Kaggle notebook interface. At the top, there's a search bar and a user profile for YUKYUNG CHOI. The notebook title is "[2025-2][AI][W3P1] 20250918_최유경". Below the title, there are tabs for Notebook, Input, Output, Logs, Comments (0), and Settings. The notebook content is divided into sections: "Competition Notebook" with a public score of 0.96400 and a best score of 0.96400 V4. The "Runtime" section shows a duration of 3m 21s. The "Input" section lists the competition as "[2025-2][AI-0918] MINST". The "Tags" section has an "Add Tags" button. The "Language" section is set to Python. The "Table of Contents" section lists four items: "[1. 학습 데이터 불러오기]", "[2. 모델 학습]", "[3. 학습된 모델을 사용하여 테스트 데이터..", and "[4. 예측된 클래스 정보를 파일로 저장하여..". The main content area shows two code blocks. The first block, labeled "In [1]:", contains Python code for importing pandas, numpy, random, and os, setting a seed, and setting the PYTHONHASHSEED environment variable. The second block, labeled "In [2]:", contains Python code for loading a CSV file from Kaggle and displaying its head.

Search

YUKYUNG CHOI · 12M AGO · 8 VIEWS · PRIVATE

[2025-2][AI][W3P1] 20250918_최유경

Notebook Input Output Logs Comments (0) Settings

Competition Notebook Public Score Best Score
[2025-2][AI-0918] MINST 0.96400 0.96400 V4

Version 4 of 4

Runtime
3m 21s

Input
COMPETITIONS
[2025-2][AI-0918] MINST

Tags
Add Tags

Language
Python

Table of Contents

- [1. 학습 데이터 불러오기]
- [2. 모델 학습]
- [3. 학습된 모델을 사용하여 테스트 데이터..
- (1)테스트 데이터 불러와서-> (2)학습된 모.
- [4. 예측된 클래스 정보를 파일로 저장하여 .

In [1]:

```
import pandas as pd
import numpy as np
import random
import os
seed = 42
random.seed(seed)
np.random.seed(seed)
os.environ["PYTHONHASHSEED"] = str(seed)
```

[1. 학습 데이터 불러오기]

캐글의 플랫폼을 사용하려면, 캐글 데이터를 불러오는 방법에 익숙해져야 함

수업시간에도 이야기 했지만, 데이터 불러오기 능력은 인공지능의 기본 중에 기본!

In [2]:

```
# 학습 데이터 불러오기
train_data = pd.read_csv("/kaggle/input/2025-2-ai-hw-minst/train.csv")
train_data.head()
```

4. 채점을 위해 노트북 공유하기

- 교수님, 조교 계정 추가하기

Share

Private
Only collaborators can view this notebook

Public
Anyone at Kaggle can find and view under the Apache 2.0 License

② 노트북 공유할 계정 검색

sejong_

- Sejong_JuYeonKim (juyeonkim)
- Sejong_jyhong (juyounghong)

ALLOW COMMENTS
On

Cancel Save

4. 채점을 위해 노트북 공유하기

- 교수님, 조교 계정 추가하기 후 재확인

Share

☒ **Private**
Only collaborators can view this notebook

☐ **Public**
Anyone at Kaggle can find and view under the [Apache 2.0 License](#)

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USER	PERMISSION
Yukyung Choi	Owner
Sejong_jyhong	Can view

ALLOW COMMENTS
☐ Off

Cancel **Save**

5. 리더보드 코드 보기

- 리더보드에 제출한 답안 별 코드 보기

The screenshot shows a web interface for a competition. On the left is a sidebar with icons for navigation. The main header includes a search bar and a user profile for YUKYUNG CHOI. Below this, the competition title '[2025-2][AI-0918] MINST' is displayed, along with a description '2025학년도 2학기 인공지능 MNIST 숫자 분류 문제'. A 'Submit Prediction' button is visible. A red box highlights the 'Code' tab in the navigation menu. Below the tabs, the 'Notebooks' section is shown, with a search bar and a 'Filters' button. A red box highlights the 'Your Work' tab. Under this tab, a submission entry is listed: '[2025-2][AI][W3P1] 20250918_최유경'. A red box highlights the 'Score: 0.964' and 'Private' status of this submission. To the right of the submission, there is a 'Recently Run' dropdown and a '0' indicator.

YUKYUNG CHOI · COMMUNITY PREDICTION COMPETITION · PRIVATE · 6 DAYS TO GO

[2025-2][AI-0918] MINST

2025학년도 2학기 인공지능 MNIST 숫자 분류 문제

Overview Data **Code** Models Discussion Leaderboard Rules Team Submissions Settings

Notebooks + New Notebook

Search notebooks Filters

All **Your Work** Shared With You Bookmarks Recently Run ▾

[2025-2][AI][W3P1] 20250918_최유경

Score: 0.964 · Private · 0 comments · [2025-2][AI-0918] MINST