



Python Programming I

Tasks

Topic Structure

Task	Single Value	Multiple Values	numpy, pandas
Presentation (value, variable)	int, float, string, boolean	list, tuple, dictionary, set	ndarray, Series, DataFrame
Operation (algebra)	expressions	operations, mutable operations	expressions, get, set, reshape, ...
Control flow		if for while	
Use and reuse		Functions Standard libraries Modules and Packages	
Input and output	Standard I/O File I/O		Standard I/O File I/O CSV, Excel



Learning Objectives

- ◇ Task 1 : Intro to Programming
- ◇ Task 2 :
- ◇ Task 3 :
- ◇ Task 4 : Final Quiz (2시간, 15주차 수업)



Kaggle 가입하기(sing in kaggle)

The image shows a Google search for 'kaggle' and the resulting Kaggle user dashboard. The search results highlight the Kaggle website as the world's largest data science community. The dashboard, for user 'sanggoo cho', shows progress metrics like login streak (2 days) and tier progress (75% to Contributor). It also displays statistics for various features: 0 datasets created, 40 notebooks created, 15 competitions joined, 1 discussion posted, and 0 courses completed. A sidebar on the left lists navigation options like Home, Competitions, Datasets, Models, Code, Discussions, Learn, and Your Work. At the bottom, there are three cards encouraging the user to 'Learn to compete on Kaggle', 'Take a short course', and 'Browse inspiring data and code'.

Google

kaggle

전체 이미지 동영상 뉴스 쇼핑 : 더보기 도구

검색결과 약 38,100,000개 (0.27초)

Kaggle
https://www.kaggle.com

Kaggle: Your Machine Learning and Data Science Community
Kaggle is the world's largest data science community with powerful tools and resources to help you achieve your data science goals.

kaggle

Create

Home Competitions Datasets Models Code Discussions Learn

Your Work

VIEWED

Intro to Lists

Conditions and Co...

Titanic Tutorial

Functions

Intro to Programming

Welcome, sanggoo cho!

Jump back in, or start something new.

LOGIN STREAK 2 Your longest is 15 days

TIER PROGRESS 75% to Contributor

PUBLIC ACTIVITY M T W T F S S

Datasets 0 total created

Notebooks 40 total created

Competitions 15 total joined

Discussions 1 total posted

Courses 0 total completed

Hide stats

How to start: Choose a focus for today

Help us make relevant suggestions for you

Learn to compete on Kaggle

Improve and test your skills

Take a short course

Our courses are the fastest way to learn data science

Browse inspiring data and code

Improve your data science projects

Task 1

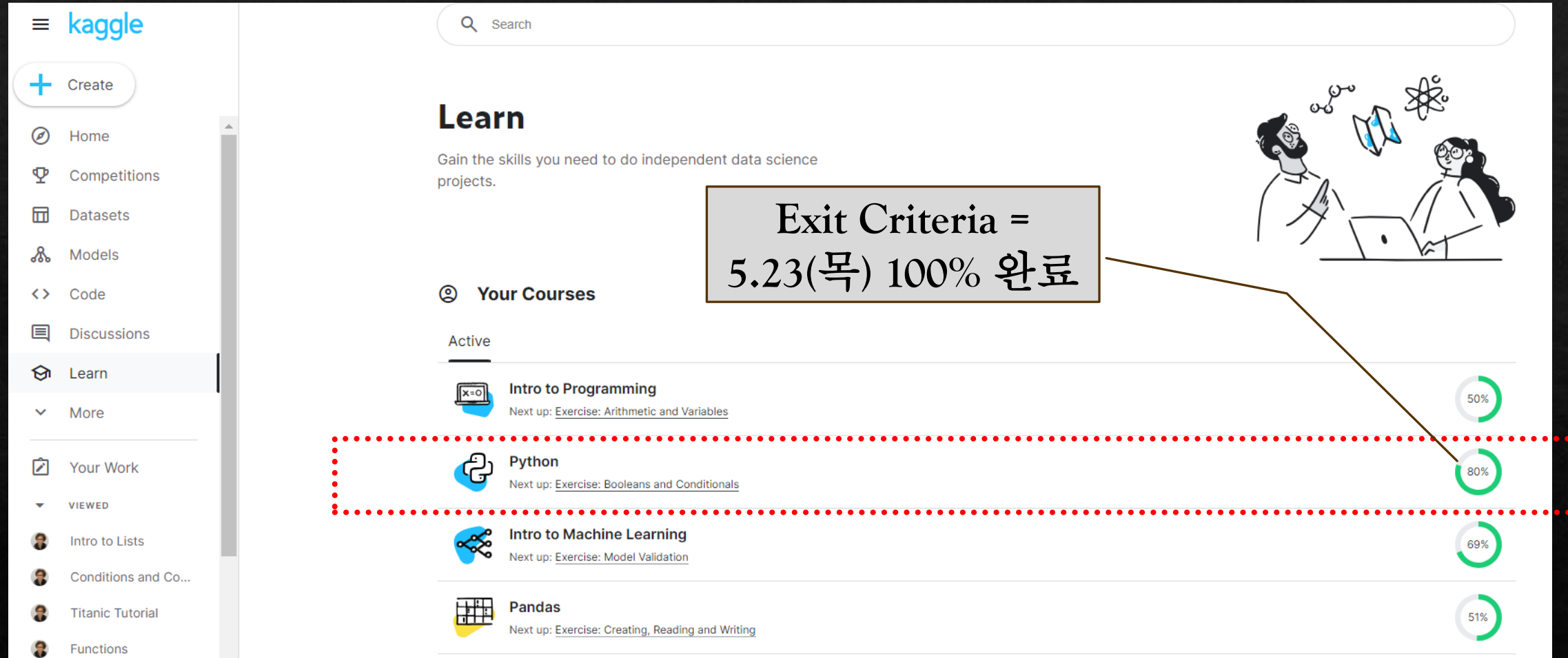
The image shows the Kaggle Learn interface. On the left is a sidebar with navigation links: Home, Competitions, Datasets, Models, Code, Discussions, Learn (selected), and More. Below 'More' are 'Your Work' and a 'VIEWED' section listing 'Intro to Lists', 'Conditions and Co...', 'Titanic Tutorial', and 'Functions'. The main content area has a search bar and a 'Learn' section with the text 'Gain the skills you need to do independent data science projects.' Below this is 'Your Courses' with a sub-header 'Active'. A red dashed box highlights the first course, 'Intro to Programming', which has a progress indicator of 50%. A callout box points to this course with the text 'Exit Criteria = 5.2(목) 100% 완료'. Other courses listed are 'Python' (80%), 'Intro to Machine Learning' (69%), and 'Pandas' (51%). An illustration of two people at a laptop is in the top right.

Learn
Gain the skills you need to do independent data science projects.

Your Courses
Active

Course	Next up	Progress
Intro to Programming	Exercise: Arithmetic and Variables	50%
Python	Exercise: Booleans and Conditionals	80%
Intro to Machine Learning	Exercise: Model Validation	69%
Pandas	Exercise: Creating, Reading and Writing	51%

Task 2



The image shows the Kaggle Learn interface. On the left is a sidebar with navigation links: Home, Competitions, Datasets, Models, Code, Discussions, Learn (selected), and More. Below 'More' is 'Your Work' with a 'VIEWED' section listing 'Intro to Lists', 'Conditions and Co...', 'Titanic Tutorial', and 'Functions'. The main content area has a search bar and a 'Learn' section with the text 'Gain the skills you need to do independent data science projects.' Below this is 'Your Courses' with an 'Active' tab. The course list includes 'Intro to Programming' (50% complete), 'Python' (80% complete), 'Intro to Machine Learning' (69% complete), and 'Pandas' (51% complete). A grey callout box with a brown border contains the text 'Exit Criteria = 5.23(목) 100% 완료'. A brown line connects this box to the 'Python' course's progress indicator. A red dotted rectangle highlights the 'Python' and 'Intro to Machine Learning' courses.

Learn
Gain the skills you need to do independent data science projects.

Exit Criteria = 5.23(목) 100% 완료

Your Courses
Active

Course	Next up	Progress
Intro to Programming	Exercise: Arithmetic and Variables	50%
Python	Exercise: Booleans and Conditionals	80%
Intro to Machine Learning	Exercise: Model Validation	69%
Pandas	Exercise: Creating, Reading and Writing	51%

Task 3

The image shows the Kaggle Learn interface. On the left is a sidebar with navigation links: Home, Competitions, Datasets, Models, Code, Discussions, Learn (selected), and More. Below 'More' are 'Your Work' and a 'VIEWED' section listing 'Intro to Lists', 'Conditions and Co...', 'Titanic Tutorial', and 'Functions'. The main content area has a search bar and a 'Learn' section with the text 'Gain the skills you need to do independent data science projects.' Below this is 'Your Courses' with an 'Active' tab. The course list includes 'Intro to Programming' (50% complete), 'Python' (80% complete), 'Intro to Machine Learning' (69% complete), and 'Pandas' (51% complete). A grey callout box with a brown border points to the 'Pandas' course, containing the text 'Exit Criteria = 6.13(목) 100% 완료'. A red dashed box highlights the 'Pandas' course entry.

Learn
Gain the skills you need to do independent data science projects.

Your Courses
Active

Course	Next up	Progress
Intro to Programming	Exercise: Arithmetic and Variables	50%
Python	Exercise: Booleans and Conditionals	80%
Intro to Machine Learning	Exercise: Model Validation	69%
Pandas	Exercise: Creating, Reading and Writing	51%

Exit Criteria = 6.13(목) 100% 완료

End of Python 1 tasks

