

2021 Kaggle Survey Distribute

- K a g g l e S u r v e y D a s h b o a r d -

WJ's Dashboard



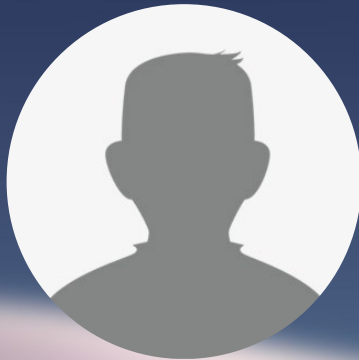
Shut Down



Restart



Sleep



WJ's Dashboard

***** I >



Shut Down



Restart



Sleep

Intro.rtf	
Intro .	
이 름	전 우 정
시 각 화 교 육 기 간	2021. 11. 15 ~
대 시 보 드 제 작 기 간	2021. 12. 20 ~ 2021. 12. 28
대 시 보 드 U R L	https://kagglesurvey2021dashboard.herokuapp.com/
간 단 이 력	https://github.com/cincu4221/project
Github Overview	https://github.com/cincu4221
캐 글 대 회 페 이 지	https://www.kaggle.com/c/kaggle-survey-2021/overview
제 출 노 트 북	https://www.kaggle.com/kwdoku145/the-latest-trends-in-east-asia-japan-and-china

전체 데이터셋 개요 .

파일명 / 파일크기	Kaggle_survey_2021_responses.csv / 35,203,886 Byte (33.57 MB)
데이터셋 개요	42+Questions & 25,973 responses
데이터 출처	https://www.kaggle.com/c/kaggle-survey-2021/data



실제 프로젝트 시 사용 데이터셋 개요.

No.	컬럼명	데이터셋	데이터 타입	결측치 유무	데이터 값 예시
1	Q1	연령	문자열	N	18-21, 22-24, 25-29, 30-34, 35-39, 40-44 ... 70+
2	Q2	성별	문자열	N	Man, Woman, Prefer not to say, Nonbinary, Perfer to self-describe
3	Q5	직업	문자열	N	Student, Data Scientist, Data Analyst, statistician,... Other
4	Q6	경력	문자열	N	I have never written code, < 1 years, ... 10-20 years

사용 데이터셋 .

컬럼명	질문
Q1	What is your age ?
Q2	What is your gender?
Q5	Select the title most similar to your current role (or most recent title if retired)
Q6	For how many years have you been writing code and/or programming?

각 컬럼의 값은 질문항목에 대한 답변으로 구성되어 있음

다음은 데이터를 다운로드 받으면 확인 할 수 있는 질문지 (PDF)이다.

다음의 질문 이외에도 약 40개의 질문이 있으나 본 대시보드에서는 네개의 항목(나이, 성별, 직업, 경력)에 대해서만 다루었다.

Q1

What is your age (# years)?

[List of Values]

Q2

What is your gender?

- Man
- Woman
- Nonbinary
- Prefer not to say
- Prefer to self-describe

Q5

Select the title most similar to your current role (or most recent title if retired):

- Business Analyst
- Data Analyst
- Data Engineer
- Data Scientist
- DBA/Database Engineer
- Machine Learning Engineer
- Product Manager
- Program/Project Manager
- Research Scientist
- Software Engineer
- Statistician
- Student
- Currently not employed
- Other

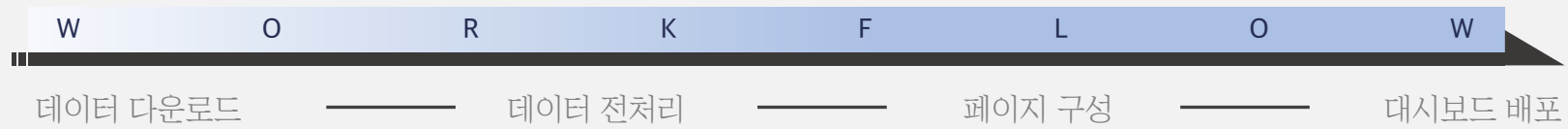
Q6

For how many years have you been writing code and/or programming?

- I have never written code
- < 1 years
- 1-2 years
- 3-5 years
- 5-10 years
- 10-20 years
- 20+ years

Workflow.rtf

워크플로우 .



Survey
Data
다운로드

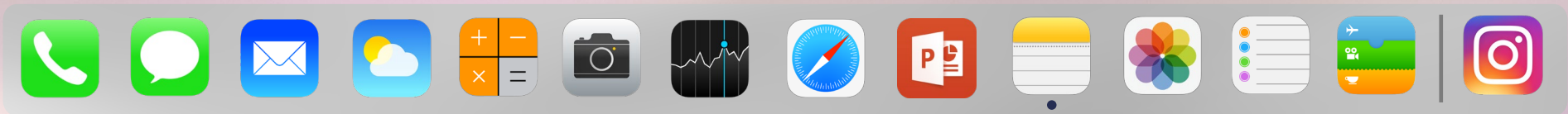
데이터셋에
따라 분류

HTML &
CSS
코드 작성

Heroku
연동후 배포

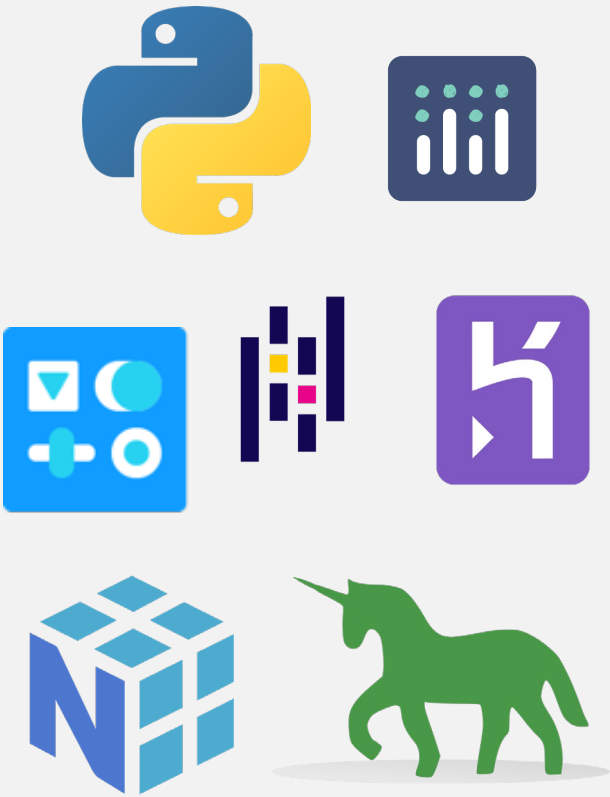
데이터
시각화

피벗테이블,
데이터 설명
탭 구성



환경설정 .

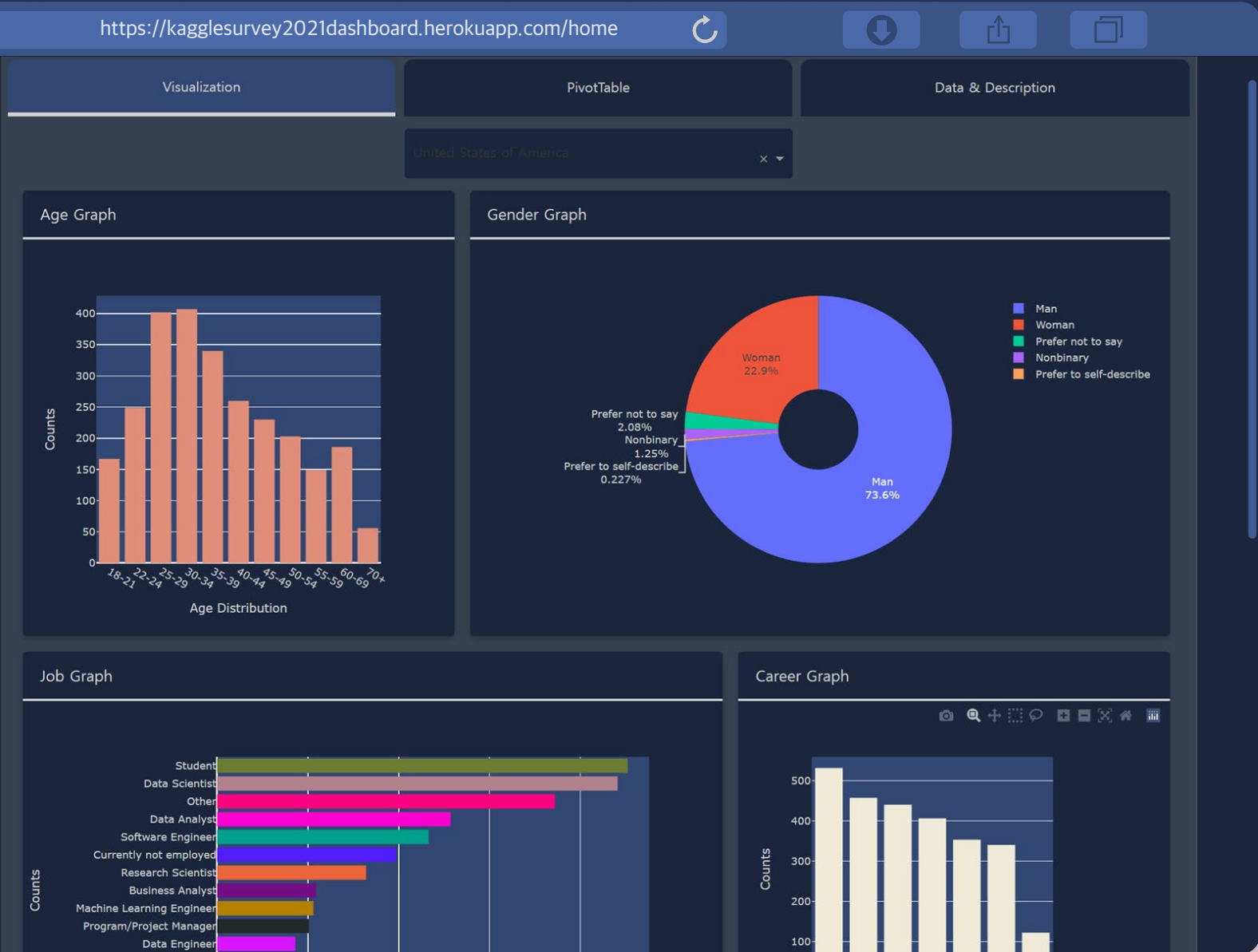
라이브러리	버 전
Python	3.9.0
Dash	1.21.0
Dash-pivottable	0.0.2
Plotly	5.4.0
Plotly-express	0.4.1
Numpy	1.21.4
Pandas	1.3.5
Gunicorn	20.1.0



Visualization , 데이터를 한눈에 .

대시보드의 꽃 시각화

Visualization 탭은
나이, 성별, 직업, 경력
네가지의 데이터를 국가로
필터링, 원하는 결과를 보기
좋게 만들어주죠.



Visualization

PivotTable

Data & Description

PivotTable

Table

Count

Country

Career

Gender

Job

Age

	18-21	22-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-69	70+	Totals
Algeria	6	10	11	4	5	1	3	4				44
Argentina	13	8	24	33	28	29	13	13	11	9	1	182
Australia	16	20	33	46	33	25	27	22	13	21	8	264
Austria	3	7	10	8	4	7	6	2	2	2		51
Bangladesh	56	131	76	29	12	8	3	1			1	317
Belarus	7	7	9	9	7	1	5	1	4		1	51
Belgium	2	6	14	15	3	6	5	8	4	2		65
Brazil	50	78	161	135	108	82	50	37	32	17	1	751
Canada	17	25	61	62	34	41	29	23	13	20	6	331
Chile	3	4	20	18	19	11	8	10	4	4	1	102
China	206	275	159	109	39	14	8	1	2		1	814
Colombia	24	24	53	34	29	22	16	11	6	6		225
Czech Republic	5	12	13	7	7	10	4	2	2	1		63
Denmark	3	3	9	9	10	2	4	2	4	2		48
Ecuador	4	5	10	9	3	6	5	7		1		50
Egypt	122	129	82	53	39	27	21	8	1			482
Ethiopia	2	1	13	12	9	4	2					43
France	16	57	93	55	48	51	29	22	11	14	5	401
Germany	23	30	101	91	79	61	27	19	20	16	3	470
Ghana	8	25	31	11	7	11	4	1		1		99
Greece	5	14	25	15	11	9	13	5	5			102
Hong Kong (S.A.R.)	10	11	14	13	15	3	6	4	2	1		79
I do not wish to disclose my location	15	12	10	6	12	6	3	3	1		1	69
India	2,719	1,795	1,275	695	407	284	141	59	33	20	6	7,434
Indonesia	150	93	75	54	23	22	10	14	2	1		444
Iran, Islamic Republic of...	29	46	45	27	30	11	4	3				195
Iraq	6	6	5	7	10	4	2	2	1			43
Ireland	7	7	10	16	9	15	4	10	5	1		84
Israel	10	7	22	30	16	21	11	7	5	8	1	138
Italy	14	36	71	34	31	29	38	25	16	14	3	311
Japan	64	93	169	140	99	95	92	61	50	49	9	921

PivotTable ,
보고싶은
항목만
썩썩 .

필요한 것만 , PivotTable

PivotTable

탭은
국가, 나이, 성별, 직업, 경력
다섯가지 항목을 행과 열로
배치해 필요한 값을 바로 얻을
수 있습니다.

VisualizationPivotTableData & Description

DescriptionDataCreator

Description

VisualizationPivotTableData & Description

DescriptionDataCreator

Data

Main Data:

kaggle_survey_2021_responses.csv: 42+ questions and 25,973 responses

- Responses to multiple choice questions (only a single choice can be selected) were recorded in individual columns. Responses to multiple selection questions (multiple choices can be selected) were split into multiple columns (with one column per answer choice).

Supplementary Data:

kaggle_survey_2021_answer_choices.pdf: list of answer choices for every question

- With footnotes describing which questions were asked to which respondents.

kaggle_survey_2021_methodology.pdf: a description of how the survey was conducted

- You can ask additional questions by posting in the pinned Q&A thread.

Download Data

Download Data

Data ,
그런데 간단한 설명을 곁들인 .

Data & Description 탭은
대회의 간단한 정보부터
대시보드에 사용된 데이터가
무엇인지 표현해 줍니다.
필요하다면 데이터를
다운로드할 수도 있죠.

References.

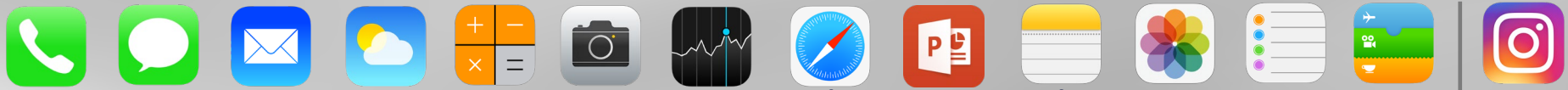
- **Heroku Dash Distribute Posting - Evan**

- <https://torch-law-f0b.notion.site/Heroku-Dash-Windows-10-b3a5d5e6ecea4ff5a896f18b24c080ab>

- **HTML & CSS - TCP SCHOOL.com**

- HTML : <http://tcpschool.com/html/intro>
 - CSS : <http://tcpschool.com/css/intro>

- ***Interactive dashboards and data apps with plotly and dash: Harness the power of a fully fledged frontend web framework in Python no JavaScript required.* Packt Publishing. - Dabbas, E. (2021).**



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- Dock ▶
- Recent Items ▶
- Force Quit Safari
- Sleep
- Restart...
- Shut Down...**
- Log Out Apple...



