

Grid view

#	Name	Project Link	Description	Skill Level	Time
Pathway: Explore Data &					
1	Data & Research Methods	Get Start...	This project is perfect for beginners as well advanced data science students. The focus of this project is the research process as a whole.	<div>Beginner</div> <div>Intermediate</div> <div>Advanced</div>	30 hours or fewer
2	COVID-19 Data Visualization	Get Start...	Refine your data visualization and data storytelling skills - essential tools for all STEM researchers - using a COVID-19 dataset.	<div>Beginner</div> <div>Intermediate</div> <div>Advanced</div>	25 hours
3	Analyzing Pandemic Responses	Get Start...	Analyze policy responses to the COVID pandemic, practice advanced quantitative and qualitative methods, and identify effective strategies for future pandemics.	<div>Beginner</div> <div>Intermediate</div>	15 hours
4	COVID-19 Data Dashboard Project	Get Start...	Learn how to build a COVID-19 data dashboard using Python. Data visualization is a quintessential part of data science and helps us better understand and share data.	<div>Beginner</div> <div>Intermediate</div>	15-25 hours
5	Radiography Image Classification Project	Get Start...	In this project, we will explore the application of Capsule Networks for the classification of COVID-19 images. Capsule Networks are a type of neural ...	<div>Advanced</div>	10 hours
6	SQL Basics for Epidemiological Research	Get Start...	This project is designed for beginners who want to practice writing SQL queries and become familiar with SQL syntax and basic data analysis tasks.	<div>Beginner</div>	10 hours
Pathway: Explore Data &					
7	Data Cleaning	Get Start...	Clean and analyze a Netflix dataset, learning pre-processing, visualization, and basic Python along the way.	<div>Beginner</div>	1 hour
8	Movie Reviews Sentiment Analysis	Get Start...	Create a Sentiment Analysis model to label an online movie review as positive, negative or neutral, leveraging Natural Language Processing and Machine ...	<div>Beginner</div> <div>Intermediate</div>	8-18 hours

#	Name	Project Link	Description	Skill Level	Time
9	Movie Recommendation System	Get Start...	Learn how model predictions work by building a movie recommendation system using the Singular Value Decomposition (SVD) technique.	Beginner	5-10 hours
10	Customer Segmentation Analysis Project	Get Start...	This project will introduce you to an array of skills as you create an unsupervised machine learning model to divide customers into segments to optimize eac...	Intermediate	10-20 hours
11	Ad Targeting	Get Start...	Using marketing data, predict if a given user will click on an advertisement and develop your Python and ML skills in the context of digital marketing.	Intermediate	10 hours
Pathway: Explore Data &					
12	Animal Health Classification	Get Start...	Develop a predictive model that will correctly diagnose animal health statuses, drawing upon five distinct symptoms.	Intermediate	10-20 hours
13	Climate & Permafrost-fed Lakes, Part 1	Get Start...	Grow your Python and data visualization skills while exploring the impact of climate change on permafrost-fed lakes in North America.	Intermediate	5 hours
14	Climate & Permafrost-fed Lakes, Part 2	Get Start...	Develop compelling visualizations which compare the melt levels of permafrost lakes, essential sources of fresh water at risk from global warming.	Intermediate	10 - 20 hours
Pathway: Explore Data &					
15	Data & Research Methods	Get Start...	This project is perfect for beginners as well advanced data science students. The focus of this project is the research process as a whole.	Beginner Intermediate Advanced	30 hours or fewer
16	Analyzing Pandemic Responses	Get Start...	Analyze policy responses to the COVID pandemic, practice advanced quantitative and qualitative methods, and identify effective strategies for future pandemics.	Beginner Intermediate	15 hours
17	Transportation Data Science	Get Start...	Leverage a New York City OpenData transportation dataset and develop data-driven insights on how roads can be made safer for everyone.	Beginner Intermediate Advanced	6-30 hours

#	Name	Project Link	Description	Skill Level	Time
Pathway: Learn Data Vis					
18	Data & Research Methods	Get Start...	This project is perfect for beginners as well as advanced data science students. The focus of this project is the research process as a whole.	<div>Beginner</div> <div>Intermediate</div> <div>Advanced</div>	30 hours or fewer
19	COVID-19 Data Visualization	Get Start...	Refine your data visualization and data storytelling skills - essential tools for all STEM researchers - using a COVID-19 dataset.	<div>Beginner</div> <div>Intermediate</div> <div>Advanced</div>	25 hours
20	COVID-19 Data Dashboard Project	Get Start...	Learn how to build a COVID-19 data dashboard using Python. Data visualization is a quintessential part of data science and helps us better understand and share data.	<div>Beginner</div> <div>Intermediate</div>	15-25 hours
21	Ad Targeting	Get Start...	Using marketing data, predict if a given user will click on an advertisement and develop your Python and ML skills in the context of digital marketing.	<div>Intermediate</div>	10 hours
Pathway: Learn Machine					
22	Movie Recommendation System	Get Start...	Learn how model predictions work by building a movie recommendation system using the Singular Value Decomposition (SVD) technique.	<div>Beginner</div>	5-10 hours
23	Radiography Image Classification Project	Get Start...	In this project, we will explore the application of Capsule Networks for the classification of COVID-19 images. Capsule Networks are a type of neural ...	<div>Advanced</div>	10 hours
24	Image Classification	Get Start...	Explore Python, Machine Learning, Neural Networks, and more! We will work with the CIFAR-10 Dataset, commonly used for image recognition tasks.	<div>Intermediate</div>	1-2 weeks
Pathway: Learn Python					
25	Data Cleaning	Get Start...	Clean and analyze a Netflix dataset, learning pre-processing, visualization, and basic Python along the way.	<div>Beginner</div>	1 hour

#	Name	Project Link	Description	Skill Level	Time
26	Image Classification	Get Start...	Explore Python, Machine Learning, Neural Networks, and more! We will work with the CIFAR-10 Dataset, commonly used for image recognition tasks.	Intermediate	1-2 weeks
27	Movie Reviews Sentiment Analysis	Get Start...	Create a Sentiment Analysis model to label an online movie review as positive, negative or neutral, leveraging Natural Language Processing and Machine ...	Beginner Intermediate	8-18 hours
28	Radiography Image Classification Project	Get Start...	In this project, we will explore the application of Capsule Networks for the classification of COVID-19 images. Capsule Networks are a type of neural ...	Advanced	10 hours
29	Animal Health Classification	Get Start...	Develop a predictive model that will correctly diagnose animal health statuses, drawing upon five distinct symptoms.	Intermediate	10-20 hours
Pathway: Learn SQL					
30	Intro to SQL Queries	Get Start...	Practice basic data analysis and get familiar with essential SQL syntax while exploring the New York City Airbnb dataset.	Beginner	1 hour
31	Intermediate SQL Queries	Get Start...	Practice writing SQL queries and become familiar with intermediate SQL syntax using the New York City Airbnb dataset.	Intermediate	1 hour
32	Advanced SQL Queries	Get Start...	Intermediate to advanced learners can practice writing SQL queries and get familiar with advanced SQL syntax using the New York City Airbnb dataset.	Advanced	5 hours