

175+ Data Science Projects You Can Try with Python

175+ Data Science Projects solved & explained with Python



Aman Kharwal · Follow

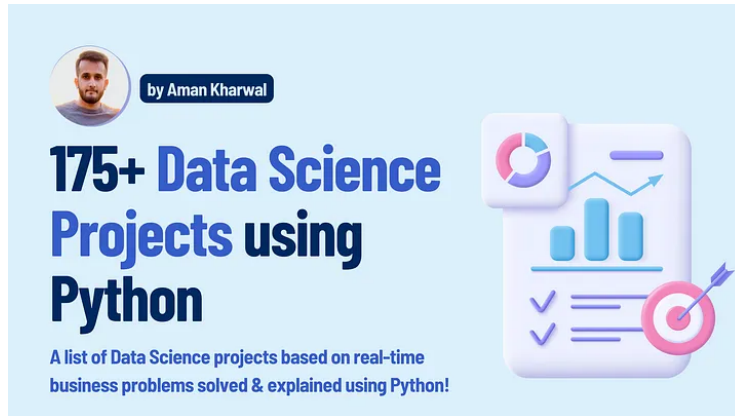
Published in Python in Plain English · 4 min read · Mar 9, 2022



833



6



As a beginner in data science, it's hard to understand all the concepts you learn without implementing them on a dataset. Working on data science projects and case studies will help you improve your data science skills. If you're struggling to come up with data science project ideas and how to start and end a data science project, this article is for you. In this article, I will take you through a list of data science projects with Python that will help you learn and implement all the concepts of Data Science by using the Python programming language.

Data Science Projects

Below is a list of Data Science projects with Python that you can try as a beginner. Each of the projects below is solved and explained using Python:

1. Music Recommendation System using Spotify API



Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month

12. [Fitness Watch Data Analysis](#)
13. [Demand Forecasting & Inventory Optimization](#)
14. [Customer Acquisition Cost Analysis](#)
15. [Dating Recommendations](#)
16. [Anomaly Detection in Transactions](#)
17. [Credit Scoring & Segmentation](#)
18. [Next Word Prediction Model](#)
19. [Dynamic Pricing Strategy](#)
20. [Web Data ETL Pipeline](#)
21. [Demand Forecasting & Inventory Optimization](#)
22. [A/B Testing of Themes](#)
23. [Data Preprocessing Pipeline](#)
24. [User Engagement Analysis](#)
25. [RFM Analysis](#)
26. [Stock Market Performance Analysis](#)
27. [Hybrid Recommendation System](#)
28. [B2B Courier Charges Accuracy Analysis](#)
29. [Currency Exchange Rate Forecasting](#)
30. [Instagram Reach Analysis & Forecasting](#)
31. [Retail Price Optimization](#)
32. [Loan Approval Prediction](#)
33. [Supply Chain Analysis](#)
34. [End to End Chatbot](#)
35. [Store Sales & Profit Analysis](#)
36. [Customer Lifetime Value Analysis](#)
37. [Exploratory Data Analysis](#)
38. [Accelerometer Data Analysis](#)
39. [Recession Analysis](#)
40. [Demand & Supply Analysis](#)
41. [Data ETL Pipeline](#)



Sign up to discover human stories that
deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month

51. [Ads Click-Through Rate Prediction](#)
52. [Survey Analysis](#)
53. [Fashion Recommendation System](#)
54. [Twitter Timeline in the Stock Market Analysis](#)
55. [Screen Time Analysis](#)
56. [Stock Market Analysis](#)
57. [Social Progress Index Analysis](#)
58. [Job Recommendation System](#)
59. [Consumer Complaint Classification](#)
60. [Business Forecasting](#)
61. [News Recommendation System](#)
62. [iPhone Sales Analysis](#)
63. [Salary Prediction](#)
64. [Flipkart Sale Analysis](#)
65. [Credit Card Clustering](#)
66. [Diamond Price Analysis and prediction](#)
67. [Step by Step NLP with Python](#)
68. [Netflix Recommendation System](#)
69. [House Rent Prediction](#)
70. [Password Strength Checker with Machine Learning](#)
71. [Classification Model Evaluation](#)
72. [Spam Comments Detection](#)
73. [Website Traffic Forecasting](#)
74. [Complete Process of NLP with Python](#)
75. [Restaurant Recommendation System](#)
76. [Online Food Order Prediction](#)
77. [Virat Kohli Performance Analysis](#)
78. [Book Recommendation System](#)
79. [Time Series Forecasting with ARIMA](#)
80. [Smartwatch Data Analysis](#)



Sign up to discover human stories that
deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month

90. [Tiktok Reviews Sentiment Analysis](#)
91. [Clustering Music Genres with Machine Learning](#)
92. [Ukraine vs Russia Twitter Sentiment Analysis](#)
93. [Cryptocurrency Price Prediction for the next 30 days](#)
94. [Stock Price Prediction](#)
95. [Breast Cancer Survival Prediction](#)
96. [Covid-19 Deaths Prediction](#)
97. [Flipkart Reviews Sentiment Analysis](#)
98. [Stock Price Prediction with LSTM Neural Network](#)
99. [Article Recommendation System](#)
100. [Future Sales Prediction](#)
101. [Netflix Stock Price Prediction](#)
102. [Time Series Analysis](#)
103. [Classification with Neural Networks](#)
104. [Stress Detection](#)
105. [AlexNet Neural Network Architecture](#)
106. [Visualizing a Machine Learning Algorithm](#)
107. [Training and Giving Inputs to a Machine Learning Model](#)
108. [Product Demand Prediction](#)
109. [Electricity Price Prediction](#)
110. [Language Detection](#)
111. [Adding Labels to a Dataset for Sentiment Analysis](#)
112. [Pfizer Vaccine Sentiment Analysis](#)
113. [Cryptocurrency Price Prediction](#)
114. [News Classification](#)
115. [Omicron Variant Sentiment Analysis](#)
116. [Iris Flower Classification](#)
117. [Water Quality Analysis](#)
118. [Twitter Sentiment Analysis](#)
119. [Squid Game Sentiment Analysis](#)



Sign up to discover human stories that
deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month

129. [Unemployment Analysis](#)
130. [Car Price Prediction Model](#)
131. [Spam Detection](#)
132. [Count Objects in Image](#)
133. [WhatsApp Chats Sentiment Analysis](#)
134. [WhatsApp Chats Analysis](#)
135. [Microsoft Stock Price Prediction](#)
136. [Covid-19 Vaccine Analysis](#)
137. [Video Game Sales Prediction Model](#)
138. [Student Grades Prediction Model](#)
139. [Saving a Machine Learning Model](#)
140. [Uber Trips Analysis](#)
141. [Google Search Analysis](#)
142. [Smartwatch Data Analysis](#)
143. [Tesla Stock Price Prediction Model](#)
144. [Financial Budget Analysis](#)
145. [Click-Through Rate Prediction Model](#)
146. [Interactive Language Translator](#)
147. [Language Detection](#)
148. [Create a Chatbot with Python](#)
149. [Best Streaming Service Analysis](#)
150. [Data Science Project on President Heights](#)
151. [Data Science Project on Birth Rate Analysis](#)
152. [Data Science Project on Time Series](#)
153. [Data Science Project on Area and Population](#)
154. [A Complete Machine Learning Project Walkthrough](#)
155. [Text Summarization](#)
156. [Keyword Extraction](#)
157. [Sarcasm Detection](#)
158. [Social Media Followers Prediction](#)



Sign up to discover human stories that
deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month

168. [Amazon Alexa Reviews Sentiment Analysis](#)
169. [Social Media Ads Classification](#)
170. [Fake News Detection](#)
171. [End-to-End Machine Learning Model](#)
172. [Gender Detection](#)
173. [Sales Prediction](#)
174. [Currency Exchange Rate Prediction](#)
175. [End-to-end Machine Learning Project](#)
176. [Profit Prediction Model](#)
177. [Automatic Time Series Forecasting](#)
178. [Real-time Sentiment Analysis](#)
179. [Amazon Recommendation System](#)
180. [Mobile Price Classification](#)
181. [Future Sales Prediction](#)

The above list of data science projects contains projects based on classification (Binary and Multiclass), regression, sentiment analysis, text analysis, recommendation systems, and many more. I will update this list of data science projects with more projects regularly.

Summary

Working on data science projects and case studies will help you improve your data science skills. The above list of Data Science projects will be updated daily with more projects. I hope you liked this article on data science projects with Python. Feel free to ask valuable questions in the comments section below.

More content at [PlainEnglish.io](#). Sign up for our [free weekly newsletter](#). Follow us on [Twitter](#) and [LinkedIn](#). Join our [community Discord](#).

Machine Learning

Data Science

Python

Artificial Intelligence

Data Analysis

👏 833 💬 6



Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

Sign up for free

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month



 Fateme Fouladkar in Python in Plain English

6 Types of Python Dictionaries: How to Choose the Right One!

There are actually 6 types of dictionaries in the Python standard library!

5 min read · Nov 6

Fundamental Indicators													
Name		Industry	EPS (USD)	P/E	FCF	FCF Yield	P/B	ROE (%)	Div	Div Yield (%)	Price	Change	12-Mo
Microsoft	Software	Software	10.45	34.5	3.45	3.29%	10.5	35.2%	0.75	0.71%	354.00	1.20	0.34%
	Software	Software	10.45	34.5	3.45	3.29%	10.5	35.2%	0.75	0.71%	354.00	1.20	0.34%
	Software	Software	10.45	34.5	3.45	3.29%	10.5	35.2%	0.75	0.71%	354.00	1.20	0.34%
Apple	Software	Software	1.45	28.5	0.85	5.86%	12.5	25.1%	0.50	0.40%	170.00	0.80	0.47%
	Software	Software	1.45	28.5	0.85	5.86%	12.5	25.1%	0.50	0.40%	170.00	0.80	0.47%
	Software	Software	1.45	28.5	0.85	5.86%	12.5	25.1%	0.50	0.40%	170.00	0.80	0.47%
Amazon	Software	Software	0.85	45.0	1.20	1.41%	8.5	18.5%	0.30	0.35%	310.00	1.50	0.48%
	Software	Software	0.85	45.0	1.20	1.41%	8.5	18.5%	0.30	0.35%	310.00	1.50	0.48%
	Software	Software	0.85	45.0	1.20	1.41%	8.5	18.5%	0.30	0.35%	310.00	1.50	0.48%
Google	Software	Software	1.85	25.0	1.50	8.11%	15.0	28.5%	0.60	0.33%	280.00	0.90	0.32%
	Software	Software	1.85	25.0	1.50	8.11%	15.0	28.5%	0.60	0.33%	280.00	0.90	0.32%
	Software	Software	1.85	25.0	1.50	8.11%	15.0	28.5%	0.60	0.33%	280.00	0.90	0.32%
Facebook	Software	Software	1.25	30.0	0.90	7.20%	10.0	22.0%	0.40	0.32%	250.00	1.10	0.44%
	Software	Software	1.25	30.0	0.90	7.20%	10.0	22.0%	0.40	0.32%	250.00	1.10	0.44%
	Software	Software	1.25	30.0	0.90	7.20%	10.0	22.0%	0.40	0.32%	250.00	1.10	0.44%
Netflix	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
Netflix	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
Netflix	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%
	Software	Software	0.55	55.0	0.30	0.55%	5.0	10.0%	0.20	0.36%	440.00	2.00	0.45%

A diagram of a neural network with 4 input nodes (blue circles), 3 hidden nodes (green circles), and 2 output nodes (orange circles). The input nodes are arranged in a diamond shape, the hidden nodes in a triangle, and the output nodes in a horizontal line. Arrows indicate the flow of information from input to hidden to output.

(Obtained and Entered values Below)

Aman Kharwal in Coders Camp

290+ Machine Learning Projects with Python

290+ Machine Learning Projects Solved & Explained using Python programming...

6 min read · Jun 4, 2021

 ω^+

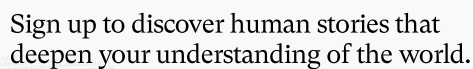
W

See all from Python in Plain English

DATA SCIENCE PROJECTS

Data Analyst
(RoadMap)

Mathematics Tools

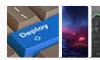


- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

Try for \$5/month



Predictive Modeling w/ Python

20 stories · 673 saves



Practical Guides to Machine Learning

10 stories · 764 saves



Natural Language Processing

956 stories · 458 saves



ChatGPT prompts

30 stories · 774 saves



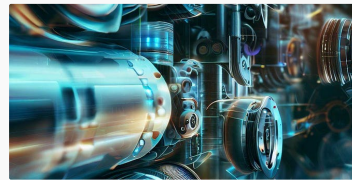
Darshan Khandelwal

Web Scrapping for Financial Data

Web Scrapping is a boon for the financial industry. The use of web data is expected to...

4 min read · Oct 22

132



Jwizzed

Building Your Machine Learning Roadmap in 2023

Machine learning (ML) is one of the most exciting and rapidly evolving fields in...

4 min read · Aug 10

31



Adiaturb

Text Sentiment Analysis—End-to-End Machine Learning Project wit...

ML model to understand and extract emotions from text. 😊

11 min read · Jun 12

3



Lionel Tchami

8 Open-Source Data Analysis Projects for Your Resume (2023)

★ · 5 min read · Jun 21

339 3

[See more recommendations](#)



Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- ✓ Organize your knowledge with lists and highlights.
- ✓ Tell your story. Find your audience.

[Sign up for free](#)

✦ Membership

- ✓ Access the best member-only stories.
- ✓ Support independent authors.
- ✓ Listen to audio narrations.
- ✓ Read offline.
- ✓ Join the Partner Program and earn for your writing.

[Try for \\$5/month](#)