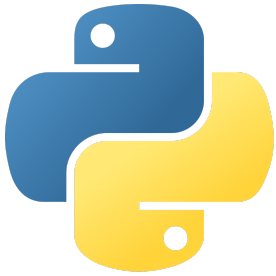
170 Python Projects



with Source Code & Resources

A collection of simple Python mini projects to enhance your Python skills.

Himanshu Ramchandani
https://www.linkedin.com/in/hemansnation/

- https://www.youtube.com/watch?v=dyN_WtjdfpA
- https://www.geeksforgeeks.org/nlp-how-tokenizing-text-sentence-words-works/
- https://www.geeksforgeeks.org/pyplot-in-matplotlib/

pin your note :

- https://www.youtube.com/watch?v=ilI3H2O5KYg
- https://www.tutorialspoint.com/python/time_sleep.htm
- https://www.geeksforgeeks.org/python-gui-tkinter/

Notification app :

- https://www.youtube.com/watch?v=vPsM7qdnhzc
- https://www.geeksforgeeks.org/desktop-notifier-python/
- https://www.geeksforgeeks.org/python-desktop-notifier-using-plyer-module/

Contact Book Application :

- https://www.youtube.com/watch?v=0rzNAGe-gUs
- https://www.geeksforgeeks.org/python-tkinter-tutorial/
- https://www.geeksforgeeks.org/sql-using-python-sqlite-set-2/

Typing Speed Test :

- https://www.youtube.com/watch?v=0e6gmdYqXrc
- https://www.geeksforgeeks.org/python-string-split/
- https://www.geeksforgeeks.org/taking-input-in-python/

Secure your password:

- https://www.geeksforgeeks.org/taking-input-in-python/
- https://developers.google.com/edu/python/dict-files
- https://www.edureka.co/blog/print-in-python/

Tic Tac Toe:

- https://medium.com/byte-tales/the-classic-tic-tac-toe-game-in-python-3-1427c68b8874
- https://inventwithpython.com/chapter10.html
- https://www.geeksforgeeks.org/python-implementation-automatic-tic-tac-toe-game-using-random-number/

Password manager:

- https://www.geeksforgeeks.org/python-gui-tkinter/
- https://www.geeksforgeeks.org/generating-strong-password-using-python/
- https://www.geeksforgeeks.org/file-handling-python/

Weather application:

- https://www.youtube.com/watch?v=vJCjDevYDt8
- http://tomasz-kluczkowski.com/project/the-weather-app/
- https://www.geeksforgeeks.org/python-real-time-weather-detection-using-tkinter/
- https://github.com/Tomasz-Kluczkowski/Weather-App

Air quality detector:

- https://www.youtube.com/watch?v=vJCjDevYDt8

Iris Flower Detector:

- https://en.wikipedia.org/wiki/Iris_flower_data_set
- https://en.wikipedia.org/wiki/Support_vector_machine
- https://www.youtube.com/watch?v=Y17Y_8RK6pc

Flight Fare Prediction:

- https://www.kaggle.com/nikhilmittal/flight-fare-prediction-mh
- https://scikit-learn.org/stable/modules/generated/sklearn.linear_model. LinearRegression.html
- https://medium.com/code-to-express/flight-price-prediction-7c83616a13bb

Rock Paper Scissor:

- https://www.geeksforgeeks.org/python-program-implement-rock-paper-scissor-game
- https://www.afiniti.com/corporate/rock-paper-scissors
- https://www.tes.com/teaching-resource/building-a-rock-paper-scissors-game-using-scratch-11268599
- https://www.youtube.com/watch?v=KnVwmBh1bo0

Rolling Dice:

- https://www.geeksforgeeks.org/python-if-else/#if-elif
- https://www.geeksforgeeks.org/python-while-loops/?ref=lbp
- https://www.tutorialsteacher.com/python/random-module

Quiz Application:

- https://www.youtube.com/watch?v=VR-yNEpGk3g
- https://www.geeksforgeeks.org/python-multiple-choice-questions/
- https://www.youtube.com/watch?v=cwJBEZjQJtc

License Plate Detection :

- http://youtube.com/watch?v=GXyLSx8l9gM
- https://docs.opencv.org/master/d9/df8/tutorial_root.html

Alarm Clock :

- https://www.tutorialspoint.com/python/python_gui_programming.htm
- https://docs.python.org/3/library/datetime.html

Simple Calculator

- https://www.geeksforgeeks.org/make-simple-calculator-using-python/https://www.geeksforgeeks.org/make-simple-calculator-using-python/` https://www.youtube.com/watch?v=miC7ni64hbw
- https://www.youtube.com/watch?v=B1U0gUhUeQs

File Renaming Tool

- https://www.geeksforgeeks.org/rename-multiple-files-using-python/
- https://docs.python.org/3/

IRIS FLOWER CLASSIFICATION USING ML:

- https://medium.com/gft-engineering/start-to-learn-machine-learning-with-the-iris-flower-classification-challenge-4859a920e5e3
- https://www.neuraldesigner.com/learning/examples/iris-flowers-classification
- https://www.skyfilabs.com/project-ideas/iris-flower-classification-using-machine-learning
- https://analyticsindiamag.com/start-building-first-machine-learning-project-famous-dataset/

- https://www.youtube.com/watch?v=FLuqwQgSBDw&ab_channel=AppliedAICourse
- https://www.youtube.com/watch?v=CLvboTdwpjc&ab_channel=RealKnow
- https://youtu.be/Y17Y_8RK6pc?list=PL5tcWHG-UPH1OeZ2vU5xQd7RVpkWvwJny
- https://youtu.be/ACdBKML9l4s

Using Google API

- https://github.com/googleapis/google-api-python-client
- https://www.youtube.com/watch?v=IVjZMIWhz3Y

Admission Prediction using ML

- https://www.udemy.com/share/103wKGAEETdltURH8B/

IPL score predictor

- https://youtu.be/4CtyDxfhoN8

Refrences for Twitter Sentiment Analysis using ML

- https://towardsdatascience.com/social-media-sentiment-analysis-49b395771197
- https://towardsdatascience.com/social-media-sentiment-analysis-part-ii-bcacca5aaa39

Credit Card Fraud Detection

- https://www.geeksforgeeks.org/ml-credit-card-fraud-detection/

Alarm clock

- https://youtube.com/playlist?list=PLu0W_9lII9ajLcqRcj4PoEihkukF_OTzA
- https://itsourcecode.com/free-projects/python-projects/alarm-clock-using-python-with-source-code/

SR	Project	Author
1	Hello World	Ravi Chavare
2	JSON to CSV	Murilo Pagliuso
3	Random Password Generator	Mitesh
4	Instagram Profile Info	Ravi Chavare
5	Search string in Files	Mitesh
6	Fetch links from Webpage	Mitesh & Michael Mba
7	Todo App With Flask	Mitesh
8	Add Watermark on Images	Mitesh
9	WishList App Using Django	Ravi Chavare
10	Split Folders into Subfolders	Ravi Chavare
11	Download bulk images	Mitesh
12	Random word from file	Ravi Chavare

13	Battery notification	Mitesh
14	Calculate age	Gaodong
15	Text file analysis	m044de
16	Generate image snipets	ravi chavare
17	Organize file system	Mitesh
18	Send emails	Mitesh
19	Get Ipaddress and Hostname of Website	Nuh Mohammed
20	Progressbar using tqdm	Mitesh
21	Get meta information of images	Gaodong
22	Captures Frames from video	phileinSophos
23	Fetch Wifi Saved Password Windows	Mitesh
24	Save Screenshot of given Website	m044de
25	Split files using no of lines	phileinSophos
26	Encrypt and decrypt text	Gaodong
27	Captures screenshot at regular interval of time	d33pc
28	Create password hash	m044de
29	Encrypt file and folders	Gaodong
30	Decimal to binary and vice versa	Alan Anaya
31	Cli Based Todo Application	Audrey Yang
32	Currency Convertor cli app	github-of-wone
33	Stopwatch Application	Gaodong
34	CLI Proxy Tester	Ingo Kleiber

35	XML to JSON file Convertor	John Kirtley
36	Compress file and folders	Gaodong
37	Find IMDB movie ratings	ShivSt
38	Convert dictionary to python object	Varun-22
39	Move files to alphabetically arranged folders	Chathura Nimesh
40	Scrape Youtube video comment	Saicharan67
41	Website Summerization	Believe Ohiozua
42	Text To speech(mp3)	Sergej Dikun
43	Image format conversion	Ramon Ferreira
44	Save random article from wikipedia	Rakshit Puri
45	Check website connectivity	Shiv Thakur
46	Fetch city weather information	Kushal Agrawal
47	Calculator App	Gaodong
48	Merge Csv files	Kushal Agrawal
49	Fetch tweets and save in csv	Kushal Agrawal
50	Language Translator using googletrans	Ashiqur Rahman Tusher
51	Split video using timeperiod	Chathura Nimesh
52	Fetch unique words from file	Rakshit Puri
53	Speech to text converter	Paulo Henrique
54	Set Random Wallpaper	Chathura Nimesh
55	Find Dominant color from image	Mitesh
56	Ascii art	Shiny Akash

57	Merge Pdf Files	ShivSt
58	Fetch Open Port	Kushal Agrawal
59	Convert Numbers To Words	Niraj Shrestha
60	Restart and Shutdown System	Phillibob55
61	Check website connectivity	Shiv Thakur
62	Digital clock using tkinter	Aditya Jetely
63	Covert Image To Pdf	Gaodong
64	Store emails in csv file	Shiv Thakur
65	Test Internet Connection	Jacob Ogle
66	XKCD Comics Downloader	Aditya Jetely
67	Website Blocker And Unblocker	Phillibob55
68	Fetch Domain Dns Record	Aditya Jetely
69	Python-Auto-Draw	Tushar Nankani
70	News Website Scraper	pratik-choudhari
71	Rock Paper Scissors Game	Tushar Nankani
72	Zip File Extractor	Aditya Jetely
73	Random Password Generator	Tushar Nankani
74	Script to perform Geocoding	Aditya Jetely
75	Python Carbon Clips	Ravishankar Chavare
76	QR Code Generator	Shiv Thakur
77	Recursive Password Generator	Erfan Saberi
78	Tic Tac Toe	Erfan Saberi
79	Tic Tac Toe with AI	Tushar Nankani

80	Cartoonify an Image	Bartu Yaman
81	Quote Scrapper	Anandha Krishnan Aji
82	Time To Load Website	Aditya Jetely
83	Customer Loan Repayment Prediction	ART
84	Generate Wordcloud from Wikipedia Article	Naman Shah
85	Number Guessing Game	Javokhirbek
86	Convert JPEG to PNG	AnuragGupta
87	Movie Information Scrapper	Anandha Krishnan Aji
88	Fetch HTTP Status Code	AkshataJ96
89	Check Leap Year	Hariom Vyas
90	Scrape Medium Articles	Naman Shah
91	HackerNews Scrapper	Javokhirbek
92	Reduce Image Size	Vipul Verma
93	Easy Video Player	Bartu Yaman
94	GeeksforGeeks Article downloader	Shiv Thakur
95	PDF to Text	pi1814
96	Unstructured Supplemenrary Service Data	ART
97	Duplicate Files remover	Anandha Krishnan Aji
98	PNG to ICO converter	weicheansoo
99	Find IMDB Ratings	Utkarsh Bajaj

100	Terminal Based Hangman Game	neohboonyee99
101	Whatsapp Bot	urmil89
102	Zip Bruter	Erdoğan YOKSUL
103	CountDown Timer	Japneet Kalra

Credit: https://github.com/Python-World/python-mini-projects
Credit: https://github.com/garimasingh128/awesome-python-projects

Machine Learning, MLOps & GenerativeAI Roadmap

https://god-level-python.notion.site/Build-a-Strong-Machine-Learning-Portfolio-Personal-Brand-Get-Tons-of-Job-Offers-in-12-Weeks-Live-b3c98407b4ab45819811db081ae9d102?pvs=4

September ML Cohort 2023

WhatsApp for Chat or Quick Call

https://wa.me/919074919189

Secure your spot now to avoid being left out of the exclusive closed community.

Limited availability → act quickly or lose this invaluable opportunity!

Book before 31st August 2023 👉 to avoid a price hike.

- Mentorship calls
- MLOps, Generative AI, NLP, Computer Vision, ML System Design, hands-on project building, and code algorithms from scratch.
- Building Projects and Portfolio
- 230+ Hours of Live sessions
- Lifetime access to recordings
- Resume Building

- LinkedIn Personal Branding for 10x Growth
- 100+ Interview Questions and Preparation
- Closed community of professionals with the same mindset
- Study Group on Discord
- Placement Support (Referrals)

Want to join the Live Cohort Ping me Hi here:
https://wa.me/919074919189

PS: Be part of the closed community, it's the last cohort in 2023, Build a Strong Machine Learning Portfolio/Personal Brand.

Act now.

Limited seats.

Registration will end on 31st August 2023.

Are you working in a Leadership position and want to learn about AI/ML and Generative AI?

Customized Roadmap for your specific needs

Ping me “I am a Leader” on WhatsApp (+91 9074919189)

OR

click here: https://wa.link/7cnkyr

Share your requirements with me at connect@himanshuramchandani.co I will customize the roadmap for you.

Session Structure →

1. Topic Understanding
2. Real-world examples
3. Implementation in Python
4. Interview questions on that topic
5. Questions to implement in programming
6. Reading one blog or reacting on the resource in the machine learning space
7. Study one company hiring in Machine Learning at a time, and analyze their products and services.
8. Discussion on How to be better?

About me (Your Mentor)

I am Himanshu Ramchandani a Data & Engineering Consultant. I help enterprises utilize big data to build AI-powered products & Mentor professionals to improve their skills in the data field by 1% every day.

the epoch → an AI Newsletter

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