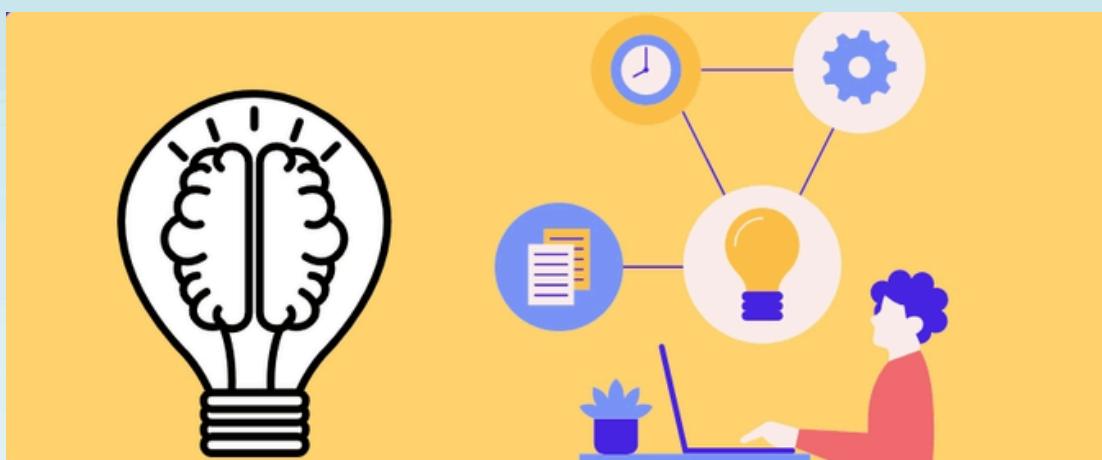


PYTHON PROJECTS

Comprehensive Guide



-Neha Jain



Work on Real-time Projects

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Python Project for Beginners

1. Mad Libs Generator in Python

Python Project Idea – Mad Libs is a game where players have to put random words in the blanks of a story. The Mad Libs Generator is a Python project that allows users to generate their own Mad Libs stories.

This project will require you to use basic Python programming constructs such as variables, loops, and conditionals. It will also require you to use string manipulation methods to fill in the blanks in the template story. It is perfect for beginners who are just starting to learn Python programming. At the end of this project, you will have a basic understanding of using Python to create a simple but useful program.

Source Code – [Mad Libs Generator in Python](#)

2. Python Number Guessing Game

Python Project Idea – This is a fun little project that I like to do in my spare time. It is a number-guessing game written in Python. The basic idea is to have the computer produce a random number between 1 and 100 and then have the user try to guess it. If the user guesses correctly, they win! If not, the computer tells them whether their guess was too high or too low, and they get another chance. It is a simple concept but a lot of fun to play.

Source Code – [Number Guessing Game](#)

3. Countdown Timer in Python

Python Project Idea – A countdown timer is a useful tool for keeping track of time. In this project, we will create a countdown timer using Python. We will first create a function to take time in seconds and print it out in a formatted string. We will then use this function to create a countdown timer.

The countdown timer will start at a given time and count down to zero. At each second, it will print out the remaining time. When the timer reaches zero, it will print out a message saying, “Time’s up!”

This project is a great way to learn about working with time in Python. It is also a useful tool that you can use in your projects.

Source Code – [Countdown Timer in Python](#)

4. Python Password Generator

Python Project Idea – Python is a versatile language to create all sorts of applications, including a password generator. This project will walk you through creating a password generator with Python. You will learn how to generate passwords of different lengths and complexity, as well as how to store them securely.

This project is a great way to learn more about Python and practise your coding skills.

Source Code – [Password Generator in Python](#)

5. Create Contact Book using Python

Python Project Idea – A contact book is a handy tool to keep all your contacts in one place. This python project will allow you to create a contact book and add, edit, and delete contacts. In addition, you'll be able to view all your contacts and their details in one place. This project is perfect for anyone who wants to keep their contacts organised and accessible.

Source Code – [Contact Book using Python](#)

6. Binary search algorithm in Python

Python Project – A binary search algorithm finds an item in a sorted array in $O(\log(n))$ time. The binary search algorithm can be implemented in Python using a simple while loop.

The array must first be sorted in ascending order to perform a binary search. Then, the algorithm will search the array for the target value by repeatedly dividing the search array in half until the target value is found. If the target value is not found in the array, the algorithm will return -1.

A binary search algorithm is a tool that can efficiently search large arrays. When implemented in Python, the binary search algorithm can quickly find an item in a sorted array.

Source Code – [Binary search algorithm in Python](#)

7. Create Desktop Notifier App in Python

Python Project – A desktop notifier app can keep track of your to-do list and ensure you don't miss any important deadlines. This Python project involves building a simple app that displays notifications on your desktop when a task is due. It will help you learn the Python requests module to fetch data from a remote API, how to use the Python Pillow module to generate images, and how to use the [Python py notifier module](#) to display notifications. By the end of this ~~project~~, you'll have a useful tool that you can use to stay organised.

8. Python Website Blocker Project

Python Project – Website blocking is a process of preventing users from accessing certain websites. This can be done to prevent access to sites that contain malware or phishing content.

There are different ways to block websites in Python. One popular method is to use a Python module called host block. This module provides several features for blocking websites, including blocking specific URLs or domains and redirecting blocked URLs to a custom page.

Another popular method for blocking websites in Python is to use the urllib2 module. This module provides several functions for working with URLs, including blocking specific URLs.

9. Web Scraping Python Project

Python Project Idea – Web scraping means extracting data from websites. It can be done manually, but it is usually done using special software. Python is a popular language for building web scraping programs because it is powerful and easy to use. There are many libraries and tools available for web scraping in Python.

10. Python URL Shortener

Python Project Idea – A URL shortener is a web application that takes long URLs and converts them into short, easy-to-remember URLs. The shortened URL can be used by anyone who wants to access the original URL.

Many URL shorteners are available online, but you can also create your own URL shortener using the Python programming language. You will need to import the Flask and requests modules in your Python script. Flask will be used to create the web application, and requests will be used to send requests to the Bitly API.

Beginner Python Project Examples

11. Python Twitter Bot

Python Project Idea – A Twitter bot can tweet and retweet on behalf of its user. You can use the tweepy library to interface with the Twitter API. The time, random, and os libraries will also help with some of the bot's functionality.

12. Python Reddit Bot

Python Project Idea – A Reddit bot login to Reddit parses comments and posts and responds accordingly. The bot will be used to automatically post new content from a specific subreddit to a Discord channel. You can use the PRAW (Python Reddit API Wrapper) library to interact with the Reddit API. This is a complex project that will require time and effort.

13. Python Discord Bot

Python Project – The discord bot python project is an interesting and unique project that can be used to create a bot for the popular chat application, Discord. This project requires a bit of knowledge in Python programming language and will also be using the Discord API. In addition, the project will be using the discord.py library.

You will first need to create a Discord account and a Discord
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application. After that, the project will need to get the Discord API key and use it to create a bot. The bot will then need to be added to a Discord server. The project will then need to code the bot and make it do different things, such as responding to messages, playing music, etc.

14. Crypto App using Python

Python Project Idea – The crypto app python project is a tool allowing users to encrypt and decrypt messages using the AES256 encryption algorithm. It also provides a user-friendly interface for managing keys and encrypting/decrypting messages.

15. Sorting Method in Python

Python Project Idea – The sorting method python project is a project that enables you to sort a list of items in ascending or descending order. This project is very useful for those who want to organise their data in a particular order.

16. Create Interactive Quiz using Python

Python Project Idea – Interactive quiz python project is a web-based Quiz application that allows users to answer questions in a quiz format and receive feedback on their answers. In addition, the application keeps track of the user's progress and allows them to look at their answers at the end of the quiz.

17. Develop Counter App using Python

Python Project Idea – The Counter app is a Python project that allows users to keep track of the number of times they perform a given task. For example, users can use the app to count the

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number of times they brush their teeth or walk their dogs. The app can be used for any task the user wants to track.

18. Web Browser Python Project

Python Project Idea – The web browser python project is a project that allows users to browse the internet using the python programming language. The project provides a web browser interface that is easy to use and allows users to surf the web without installing any additional software. The project is open source and is available for free.

Source Code – [Web Browser in Python](#)

19. Build Notes App in Python

Python Project Idea – The Notes App Python Project is a simple command line application that allows users to create and manage notes. The project is written in Python and uses the built-in sqlite3 module to store data.

The application has two main features: creating and managing notes. To create a note, the user must specify a title and body. The body of the note can be either plain text or Markdown. Once a note is created, the user can view, edit, or delete it.

20. Create Typing Tester using Python

Python Project Idea – The Type Tester Python Project is a set of Follow Neha Jain for Data related posts: <https://www.linkedin.com/in/neha-jain-279b80118/>

scripts that will help you to test and debug your fonts. It is designed to be in conjunction with font files, so you will need to have the font files installed on your system.

This project is not meant to replace a typeface designer or typographer. It is only meant to help identify inconsistencies in the font file and then provide the user with suggestions about how to fix them.

Source Code – [Typing Tester in Python](#)

21. Python Wikipedia Explorer

Python Project Idea – The Wikipedia Explore Python Project is a project that aims to teach people how to code in Python. This project is not a course but an interactive and exploratory way of learning Python. It provides various exercises that help you learn the basics of Python.

The project also has a section for learners who have already learned some basics of coding and want to explore more advanced concepts.

Easy Python Projects for Aspiring Developers

It's time to work on basic Python projects

22. Python Stock Market Prediction App

Python Project – A Python project for a stock market prediction app is an exciting opportunity to learn about financial markets. The project aims to develop a Python library that can predict the prices of stocks in the future based on their historical prices. The library will use linear regression analysis to find a relationship

between past and future prices.

23. Create Image Recognition App in Python

Python Project Idea – Image recognition is a technology that will make our lives easier. The project aims to create an image recognition app using Python. This app will use computer vision and image processing algorithms to recognise objects in images and then provide the user with the object's name. This technology has many applications, such as recognising faces and identifying people in images or videos, recognising scenes and objects in images or videos, identifying text in images or videos, etc.

24. Design Price Prediction Model in Python

Python Project – A price prediction model is a mathematical model that predicts the price of an item based on certain parameters. Python is a programming language used to create these models. The following are some ways to use it:

- To create games
- To create websites
- To make animations
- To program robots or drones

25. Interactive Map in Python

Python Project – The interactive map python project is an open-source project which aims to provide a framework for developers to create interactive maps. It has been developed by the Open Source Geospatial Foundation.

It is a Python library that works with the ArcGIS API for Python and can also be used with other GIS software. The Interactive Map Python

Project provides a framework for developers to create interactive maps and has been developed by the Open Source Geospatial Foundation.

26. Temperature Converter Project in Python

Python Project – This project aims to be a temperature converter for people living in Celsius or Fahrenheit countries. It converts the temperature from Fahrenheit to Celsius and vice versa.

27. Measurement Converter Project in Python

Python Project – The measurement converter python project is a simple application that converts between various units of measure. It has been created to help people who need to convert between different measurements but don't know how to do it. The project is open-source and free to use.

This project was created in order to provide the user with a simple application that can convert one unit of measure to another. The measurement converter python project is open-source and free for anyone who needs it.

Source Code: [Python Weight Converter Project](https://www.linkedin.com/in/neha-jain-279b80118/)

28. Python Prison Break Project

Python Project Idea – The Prison Break Python Project is an open-source project that aims to provide a library of code for people who want to write programs that can break out of prisons. It is a system that can be used to break

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into any password-protected computer. The system is a Python library designed to use brute force attacks to guess the password.

29. Star Wars Survey Python Project

Python Project – The star wars survey project in Python is a framework for creating surveys. It is an open-source Django application that provides a framework for building surveys. The project has been created to make it easy to build a questionnaire that can be submitted to respondents and then analysed using statistical software such as R or Stata.

30. Netflix Data Analysis in Python

Python Project – The company has a history of using machine learning to improve its services and recently released a project called the Netflix Analysis Project in Python. This project aims to provide an intuitive interface for data exploration and analysis by using tools from the Python ecosystem.

The project consists of three modules: Data Exploration Toolkit (DET), Data Analysis Toolkit (DAT), and Visualization Toolkit (VIT). All three modules are built on Jupyter notebooks with the JupyterLab extension.

31. Bulk File Renamer in Python

Python Project – The bulk file renamer project in Python renames files with a given prefix. It works by analysing the

directory for files with the given prefix and then renaming them with the specified suffix. This project can be helpful when you want to organise your media library or if you are working on a large project and need to rename all your images.

32. Python Weather Program

Python Project – The weather program project in Python is a tool that provides the user with a clear interface to display the current temperature and forecast of the weather. Using this program, you can find weather details in different parts of the world.

The program takes in input from various sources, such as Google Maps, Yahoo Weather, and the US National Weather Service. It then displays this data on its interface for easy reading. It also has an option for users to share their location with friends or family so that they can see what the current weather is like from their perspective.

33. Markov Text Chain Composer Project

Python Project – Markov Text Chain Composer is a project in Python that uses machine learning to generate new text based on existing text. It works by looking at a body of text and using the patterns it finds to create new text with the same style. So if you have a book written in a certain way, the project can generate new sentences that sound like they came from the same book.

Cool Python Projects for Game Developers

34. Pong Game in Python

Python Project – Pong is a game written in Python using the PyGame library. It is a classic two-player game where players control a paddle and hit the ball back and forth. The first player who misses the ball loses! Making a Pong project in Python means writing code to run the game.

Source Code – [Pong Game in Python](#)

35. Connect Four Python Project

Python Project – Connect Four is a game where you try to line up four pieces in a row on a board. With a Python project, you can use computer programming to create a version of the game. This version will be able to track how many pieces each player has, what colour pieces the player has, how many pieces are left to place, and when somebody wins the game.

36. Python Tetris Game Project

Python Project – A Tetris project in Python is one of the popular game python projects. It is a computer game that someone can write in Python. It involves writing code to make pieces of different shapes fall from the top of the screen, and the goal is to fit them together, so they make a complete row. If you can do that, the row of pieces will disappear, and you can keep playing.

37. Online Multiplayer Game in Python

Python Project Idea – A Python Online Multiplayer Game project is a computer program that allows people to play games together

over the internet. It could be a card game, a racing game, a board game or whatever game people want to play. The programming language Python is used to create this type of game so that people can have fun interacting with each other online.

38. Python Minesweeper Game

Python Project – Minesweeper is a game where you must find all the hidden ‘mines’ (or bombs) on a grid without clicking on any of them. To do a Minesweeper project in Python, you’ll have to write a program that will create the game and allow you to play it by clicking on the squares and trying to figure out which ones have hidden bombs. If you get it wrong, you lose the game!

39. Flames Game in Python

Python Project Idea – Flames Game is a Python project that helps two people determine if they are meant to be together. First, you give it your name and your crush’s name, and it generates a word made up of the letters from both of your names. Then, it gives you instructions on counting the letters until you are left with only one letter, which tells you if you are compatible or not.

Source Code – [Flames Game in Python](#)

40. Python 2048 Game

Python Project Idea – The 2048 project is a game written in Python where a player moves tiles around on the board to try to add them up to 2048. Each move adds a new tile to the board with a value of two or four. The goal is to keep adding tiles and moving them around to get the sum of tiles on the board to reach 2048.

Source Code – [2048 Game in Python](#)

41. Python Snake Game

Python Project – The Snake Python Project is a project to create a comprehensive database of information on snakes. The project is open to anyone who wishes to contribute, and all contributions are welcome. The project is still in the initial stages, but it is predicted to eventually become a valuable resource for snake enthusiasts and experts alike.

Source Code – [Snake Game in Python](#)

42. Build Space Invaders Game in Python

Python Project Idea – Space Invaders is a classic video game from the 1980s. In this game, the player controls a ship at the screen's bottom and must destroy the waves of aliens attacking from the top.

This project will involve creating a Space Invaders game in Python. We will start by creating a basic game engine, then add the player ship, aliens, and other features. Finally, the project will be completed with a high-score system and some sound effects.

43. Create Sudoku Solver using Python

Python Project – The challenge of creating a Sudoku solver program is to take an arbitrary Sudoku puzzle and generate a solution. This can be accomplished by exhaustively searching through all possible permutations of the digits until the correct solution is found.

The first step is to input the Sudoku puzzle to create a Sudoku solver

program. The program will then generate all possible permutations of the digits 1-9 and check to see if each permutation satisfies the constraints of the Sudoku puzzle. If a permutation satisfies the constraints, the program will output the permutation as the solution to the Sudoku puzzle.

Source Code – Sudoku Solver using Python

44. Python Tic-Tac-Toe Game

Python Project Idea – The tic-tac-toe python project is an excellent way to learn how to code in Python. The goal is to create a functioning tic-tac-toe game that two people can play. The project is simple to code and can be used to teach the basics of coding to beginners.

The project can also be used to teach more advanced concepts to experienced coders. The project is a great way to learn about coding in Python and can be used to teach others how to code in Python.

Source Code – Tic-Tac-Toe Game in Python

45. Dice Rolling Simulator using Python

Python Project Idea – Python is a versatile language you can use to create programs, including a dice-rolling simulator. This project will walk you through creating a dice-rolling simulator program in Python.

We will start by creating a basic program that simulates rolling a

single die. Then, add a few features to make the program more realistic, like rolling multiple dice at once. Finally, add a graphical user interface (GUI) so that users can interact with the program more easily.

Creating a basic dice-rolling simulator is a great way to learn Python's programming basics. At the end of this project, you will have a program you can use to play all sorts of dice games. So let's get started!

Source Code – [Dice Rolling Simulator in Python](#)

46. Hangman Game in Python

Python Project – This is a python project that implements the game of hangman. The player is given a specific number of chances to guess the word, and if they are unsuccessful, they are “hanged”.

The project uses a simple text-based interface.

Source Code – [Hangman Game in Python](#)

47. Rock Paper Scissors Game in Python

Python Project – Rock Paper Scissors is a simple game you can play with a friend. The game is played by each player choosing one of rock, paper, or scissors, and then the players compare their choices. It is a draw if both players have chosen the same thing.

Otherwise, the winner is the player who has chosen the winning hand (rock beats scissors, paper beats rock, scissors beats paper).

This project is a fun and easy way for people to learn about Python.[**Source Code – Rock Paper Scissors Game in Python**](#)

48. Create Text Adventure Game in Python

Python Project Idea – The text adventure game is a game where the player uses text commands to control the character and progress through the story. The game is written in Python programming language and designed to run on the command line. The project is open source, meaning anyone can contribute to the game's development.

49. Create Memory Puzzle Game in Python

Python Project – A Memory Puzzle Game is an interactive game using Python programming to help you remember things. It's like a game of Concentration where you have to match two cards with the same picture. You can make the game harder by increasing the number of cards or easier by decreasing the number of cards. It's a fun way to practise your coding skills!

[**Source Code – Memory Puzzle Game in Python**](#)

Python Project for Final Year Students

50. Photo Manipulation using Python

Python Project Idea – Photo manipulation is when you use a computer program to edit photos. For example, in a Python project,

you would write computer code in the Python language to manipulate photos. This could include changing the size or brightness of the photo, cropping it, adding text or objects, or removing certain elements.

51. Python Calculator

Python Project Idea – The Calculator Project in Python is a fun way to learn to program. It's a project where you create your own calculator that can do essential functions like adding, subtracting, and multiplying numbers. You can program the calculator to do more advanced maths and even create your own calculator functions. It's a great way to learn Python programming and develop your skills.

Source Code – [Calculator in Python](#)

52. Python QR Code Encoder/ Decoder Project

Python Project – This project is where you write code that can create a special type of barcode called a QR Code. Then, you can also write code that can scan and decode these barcodes and figure out what information is inside them. This is useful for quickly scanning a product in a store and getting information about it.

Source Code – [Generate Q R Code using Python](#)

53. Video to Audio Converter Python Project

Python Project – A Video to Audio Converter project in Python is a way to take a video file and turn it into an audio file. It is a type of computer program written in the Python programming language

that takes a video file and converts it into an audio file you can listen to or share with others.

Source Code – [Video to Audio Converter in Python](#)

54. Python YouTube Downloader

Python Project – A YouTube Downloader project in Python is a program written in the python language that can be used to download videos from YouTube onto your computer. It will use code to search for videos and then download them directly to your computer, so you can watch them later when you don't have an internet connection.

Source Code – [YouTube Downloader in Python](#)

55. Visualise a Solar System using Python

Python Project – This project is a way to use code to create a picture of a solar system on a computer screen. It uses loops and data sets to draw the planets and their orbits, then add the sun and other stars to the system. It's a fun project that shows how coding

can be used to create something beautiful.

Source Code – [Visualise a Solar System using Python](#)

56. Shutdown, Restart and Logout Computer with Python

Python Project – This project is a way to use the Python

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programming language to make a program that lets you shut down, restart, or log out of your computer. It will use commands to tell the computer what to do. For instance, if you want to shut down your computer, the program will send a command to the computer telling it to shut down.

Source Code – [Shutdown, Restart and Logout Computer with Python](#)

57. Shop Management System Python Project

Python Project – A Shop Management System project in Python is a computer program that helps people who run shops track and organise their stock. It can help them keep track of what items they have in their shop, how much money they're making from selling items, and how much money they need to buy more things. Python is the programming language used to create this project.

Source Code – [Shop Management System in Python](#)

58. Voice Assistant Python Project

Python Project – Voice Assistant project in Python teaches a computer to understand and respond to speech. You can use the Python programming language to create a program that can understand and answer questions or commands you give using your voice. With this project, you can use your voice to control your computer, play music, or search the internet.

Source Code – [Voice Assistant in Python](#)

59. Convert PDF File Text to AudioBook and speech to PDF using Python

Python Project – This project is about using Python, a computer Follow Neha Jain for Data related posts: <https://www.linkedin.com/in/neha-jain-279b80118/>

programming language, to take text from a PDF document and turn it into an audiobook or to take speech and turn it into a PDF document. It's like using a computer to listen to a book or type out what someone said into a PDF.

Source Code – PDF File Text to AudioBook using Python

60. Extract Song Lyrics in Python

Python Project – The Extract Song Lyrics project in Python is a computer program that can search the internet and find the words to any song. So it can help you learn the lyrics to your favourite songs without having to look them up or memorise them. Instead, you type in the song's name, and the program will do the rest!

Source Code – Extract Song Lyrics in Python

61. Website Connectivity Checker Python Project

Python Project – The Website Connectivity Checker project in Python is a program that checks to ensure websites are working properly and can easily be accessed. It can look at websites from different parts of the world and ensure they respond quickly.

Source Code – Website Connectivity Checker in Python

Python Project Ideas – Advanced

Level

62. Python Library Management System

Python Project – The Library Management System project in Python is a program that helps librarians manage their library by keeping track of the books in the library and the people who borrow them. It can also help keep track of the due dates and fines for books that are overdue. It makes it easier for borrowers to find books they want and for librarians to ensure books are returned on time.

Source Code – [Library Management System in Python](#)

63. Convert Text to Speech and Speech to Text with Python

Python Project Idea – This project is a way of using programming to take written words and convert them into spoken words or take spoken words and convert them into written words. So, for example, it can make talking robots or allow people to type messages without typing them out.

Source Code – [Python Text to Speech and Speech to Text Converter Project](#)

64. Expense Tracker Python Project

Python Project Idea – The expense tracker project in Python helps you track how much money you are spending. It keeps a record of your spending and lets you figure out where you can save money. It can also give you advice on how to manage your finances better.

Source Code – [Expense Tracker in Python](#)

65. Screen Recorder Python Project

Python Project – The Screen Recorder Project in Python is a program that allows you to record the screen of your computer and save it as a video file. It's like making a movie of what you're doing on your computer, so you can watch it later or show it to friends.

Source Code – [Screen Recorder in Python](#)

Python Currency Converter

Python Project – The Currency Converter Project is one of the best python projects for beginners. It is a program that can convert an amount of money from one currency to another. So, if you had \$100 in US Dollars and wanted to see how much it was worth in Euros, you could use the Currency Converter Project to find out.

Source Code – [Currency Converter in Python](#)

66. Music Player Python Project

Python Project Idea – The Music Player Project in Python is a project where you can create a program that can play music, like a jukebox. It can store a list of songs and let you choose which one to play. You can also create controls like ‘stop’, ‘pause’ and ‘play’ to control the music.

Source Code – Music Player in Python

67. Language Translator Python Project

Python Project – The Language Translator project is a way to create a program that can translate words and phrases from one language to another. You can use it to help people who don't speak the same language understand each other. It's like a human translator, but a computer does it.

Source Code – Language Translator in Python

68. Python To-Do List

Python Project Idea – The To-Do List project in Python is a program that you can use to keep track of tasks you have to do. With this project, you can write down the things that need to be done and then ‘tick’ them off the list when they are complete. It’s a great way to stay organised and ensure nothing is forgotten.

Source Code – To-Do List in Python

69. Python Text Editor

Python Project Idea – The Text Editor project helps you create a computer program to write and edit text. You can use it to write stories, take notes, or do whatever you need to do with text! It’s like a program that acts like a word processor, but it’s written in Python code.

Source Code – Text Editor in Python

70. Python Chatbot Project

Python Project Idea – Chatbots are a type of AI programmed to communicate with human beings. The chatbot project in this section will teach you to build a chatbot using Python. The first step is to install the Python programming language on your computer and then create a new folder for your project. You will need many libraries, including python-dateutil, python-requests, GoogleMaps, and pytz.

71. Sentiment Analysis Model using Python

Python Project Idea – Sentiment analysis models are a classification type that analyses a given text's sentiment. A sentiment analysis model can be used in applications such as social media, customer feedback, and even live-chat interfaces. It aims to create an API that will support sentiment analysis through Python.

Credits: <https://pythongeeks.org/python-projects>