# Sozcode

# Education engineered for an era of transformative technologies

REVIEWS.io

**Sozcode Pte Ltd Reviews**

★★★★½

**4.8** Rating    **516** Reviews

# About Us

# We work with companies, institutions and government agencies of all sizes, to deliver technology training

**CUSTOMISED COURSES**


Customised training in UIPath


Customised training for students in Python, Tableau, Excel, Excel VBA


Customised training in Python


Customised training in Generative AI tools

**OPEN RUN COURSES**

# We bring practical tips from real-life project experience on data analytics and process automation into our courses.

We promise that learning will be fun and immediately applicable to your work!

**IMPLEMENTATION SERVICES**

## DATA ANALYTICS

**HOOGA™**
Simple pleasures everyday

Aggregated sales dashboard (Tableau)

**菁田 PUTIEN**

Aggregated outlet sales dashboard

**JR GROUP**

Aggregated sales dashboard

**NYC**

Internal dashboard

## PROCESS AUTOMATION

**NYC**

Streamlined Procurement workflows

**JR GROUP**

Streamlined finance workflows

**AVENTIS**

Streamlined education admin workflows

## WEB/APP DEVELOPMENT

**INSECT FEED TECHNOLOGIES**

iOS and Android farm management app

**Saint Clare**
SCHOOL FOR SPECIAL EDUCATION PTE LTD

iOS and Android parent communication app

**ilby**

iOS and Android chat app connecting youths and counsellors

**Pawmeal**

Dynamically priced pet food ecommerce web app

# *End-Goal Driven Learning*

## We teach only the most important chapters to achieve this goal

Brandon has received consistent positive feedback from the course attendees on his clear content delivery and patience in guiding the participants through scenerios which are relevant and applicable to real world challenges faced by organisations. The attendees were kept engaged during the highly interactive, well designed course and are encouraged to continue their learning of the subject matter beyond the workshop.

**Doreen Ang**
National Technological Univsrsity

## Tedious, Chapter-By-Chapter Course That Can Feel Like A Never Ending Journey

As a beginner, learning programming can feel overwhelming with multiple chapters to cover. It's easy to lose sight of the purpose behind each topic and how they come together to create a final product. Often, the relevance and objectives of individual chapters may not be immediately clear, making the learning process seem exhausting.

## Starting with the End Goal in Mind

Instead of learning concepts chapter-by-chapter, all of our foundational courses begin by defining a clear, practical project or problem to solve. This could be anything from automating a task to building a simple application.

## Learn Only What Matters

We don't cover every possible chapter—instead, we **select only the most essential topics** that significantly contribute to achieving the end goal.

# End-Goal Driven Learning

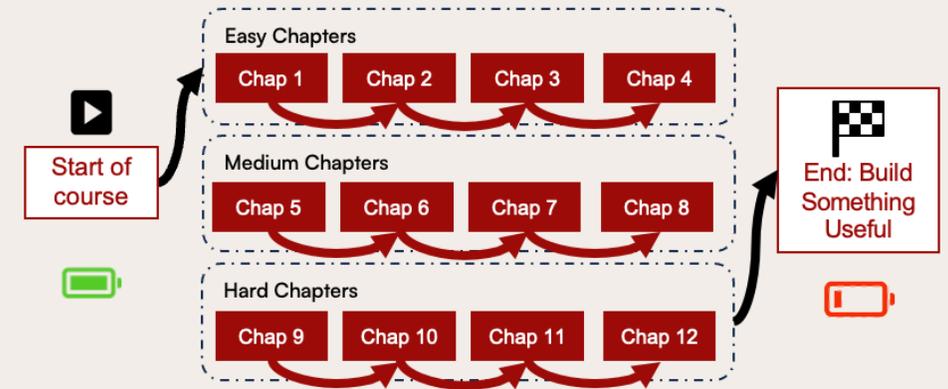We teach only the most important chapters to achieve this goal

This has been the best programming course I've ever attended. The trainer explained everything in an easy to follow and intuitive manner. Not only was I able to learn how to create codes, I am now able to apply them in areas relevant for myself. Thank you!

All sections are useful. But a key takeaway from this course is that you can apply what you learn your specific projects or even improve your current workflows.
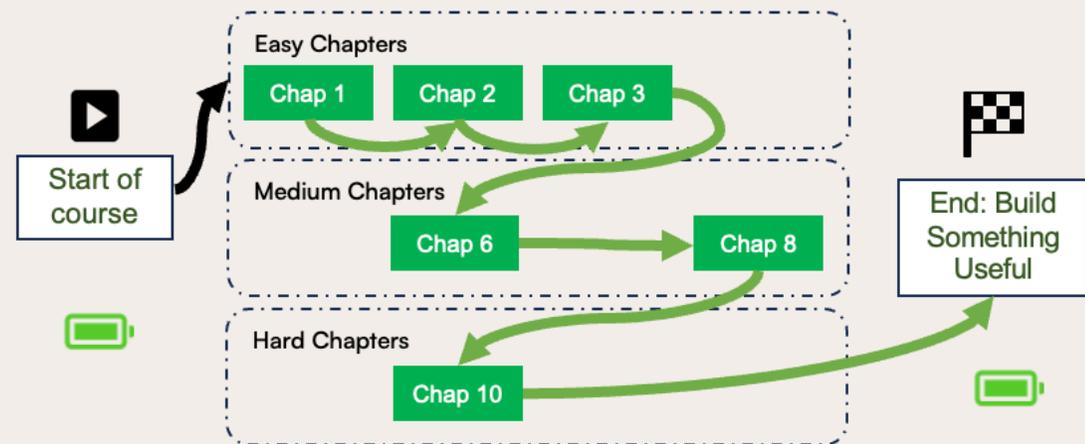
Andrew Roshan Dicom
Public Health Intelligence @ MOH

## A generic chapter-by-chapter course

Start of course

**Easy Chapters**
Chap 1 — Chap 2 — Chap 3 — Chap 4

**Medium Chapters**
Chap 5 — Chap 6 — Chap 7 — Chap 8

**Hard Chapters**
Chap 9 — Chap 10 — Chap 11 — Chap 12

End: Build Something Useful

## Our Courses – Teaching Only Selected Chapters

Start of course

**Easy Chapters**
Chap 1 — Chap 2 — Chap 3

**Medium Chapters**
Chap 6 — Chap 8

**Hard Chapters**
Chap 10

End: Build Something Useful

# We have trained over 1000+ participants over the past 6 years, with great testimonials on participant engagement

sozcode.com/positive-reviews

## Refreshingly different from other courses

Brandon is really dedicated, passionate, patient. he managed to package the training in a super interactive, concise and fun manner. Its easy to retain knowledge by seeing the application of Python. This is refreshingly different from other courses

**Peck Hwang Wong**
Marketing Manager, Amazon

## Understands his audience's needs very well and pitches his lessons at a suitable level

I highly recommend the Data Analysis and Visualization with Python course taught by Brandon Ong. The course is suitable for both complete novices and people who have some prior coding experience.

Brandon understands his audience's needs very well and pitches his lessons at a suitable level, avoiding complex jargon and concepts where possible. He also motivates concepts and techniques he teaches with interesting anecdotes.

**Kenneth Kwok**
Principal Research Scientist, A*STAR

## Attendees were kept engaged during the highly interactive, well designed course

Brandon has received consistent positive feedback from the course attendees on his clear content delivery and patience in guiding the participants through scenarios which are relevant and applicable to real world challenges faced by organisations. The attendees were kept engaged during the highly interactive, well designed course and are encouraged to continue their learning of the subject matter beyond the workshop.

**Doreen Ang**
Trainer, Nanyang Technological University

## Plenty of real-life experiences in-built into his teaching

Brandon is very knowledgeable and passionate about this topic, with plenty of real-life experiences in-built into his teaching. Instead of going chapter by chapter, we learn to apply the basic but important knowledge and go straight to playing with the software and visualization.

**Ding Hui Fang**
Senior Executive (Procurement), Prime Minister's Office

# Course Trainers

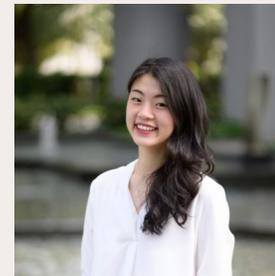Our instructors are part-time trainers but current full-time practitioners.

We believe that technology is always evolving, and a full-time practitioner is in the best position to provide relevant and practical insights.

**Brandon Ong**
Python, Data & AI

**Yak YC**
AI & Digital Transformation

**Eleanor Chin**
PowerBI

**Allen Lee**
Design Thinking

# Course Catalogue

Public run courses

# Course Catalogue - Skills Pathway

In our foundation courses, we teach only the most important chapters to achieve a specific goal.

After learning basic concepts in a big picture, our level up courses deep dives into specific skills designed to create more advanced products / solve advanced problems.

| Skill Category | Foundation | Level Up |
|---|---|---|
| Generative AI For Everyone | Master ChatGPT and AI For Everyday Work | ChatGPT Plus: Advanced Skills For Work<br>Python and GPT-4 For Beginners |
| Automate Work With Programming and AI | Python and GPT-4 For Beginners<br>Automate Excel With Python For Beginners | Python Level Up: Mastering Pandas |
| Data Analytics | Data & AI With Python For Beginners<br>Power BI: Transform And Analyse Data | Python Level Up: Mastering Pandas |

# Generative AI For Everyone

A skills pathway that enables you to utilise the best of Generative AI

# Master ChatGPT and AI For Everyday Work (1 full day)

WHY LEARN CHATGPT AND AI?
Generative AI will be the next most important foundational technology that powers services after the Internet.

OUTCOMES
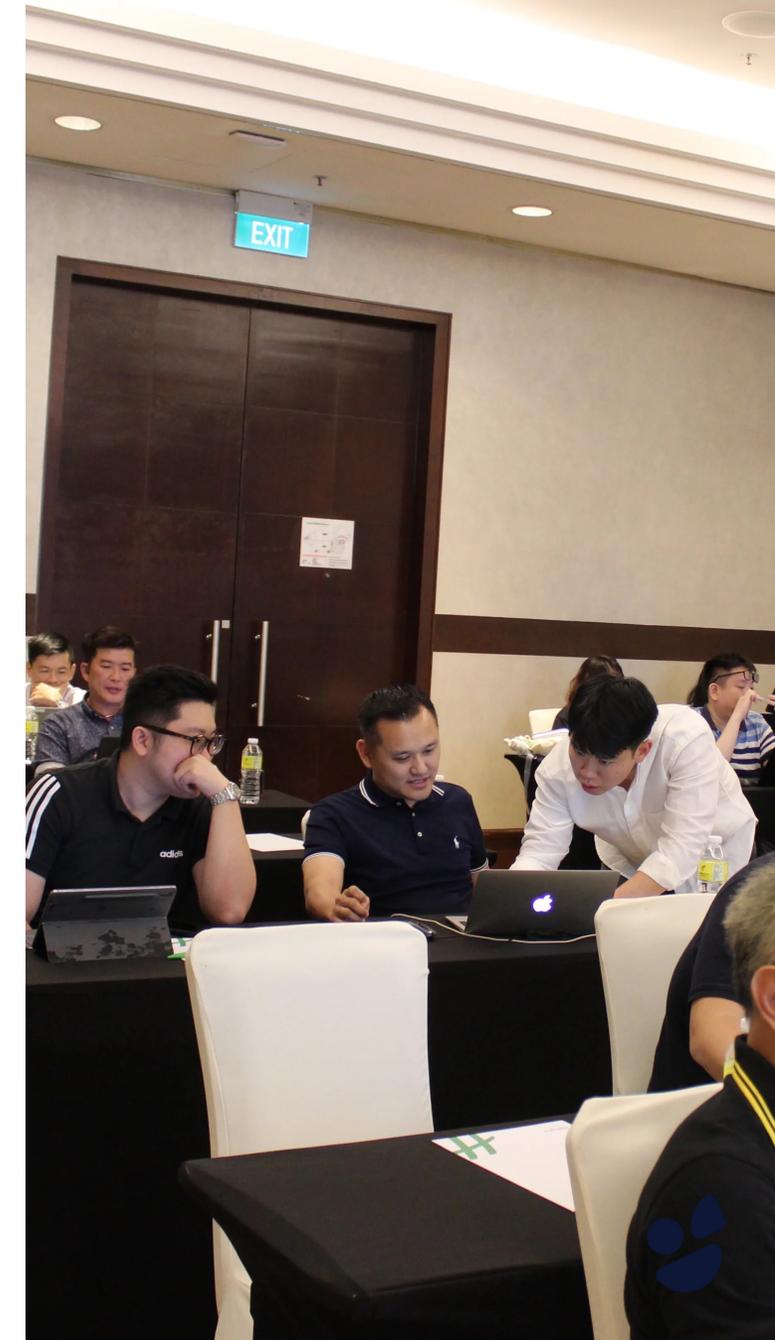By the end of this course, participants will achieve the following:
- How to write better prompts with ChatGPT
- Understand different work scenarios where you can apply Generative AI to
- Apply ChatGPT at scale by asking hundreds of questions at the same time with an entire spreadsheet of data
- Experimenting with other large language models such as Gemini
- Perform document summary using NotebookLM
- Perform web research using a Gen AI powered search tool such as Perplexity

THIS COURSE IS SUITABLE FOR:
- Beginners who are new to AI
- People who are interested to apply AI in their day to day work

COURSE SYALLABUS
- Framework to get better responses from and write better prompts in ChatGPT
- Science behind ChatGPT and Large Language Model
- What categories of work can ChatGPT be applied to? (Summary, Inferring, Transforming, Expanding, Solving)
- Trying other Large Language Models like Claude 3
- Introduction to ChatGPT Plus — learning about GPT-4 and added features like file search
- Using ChatGPT at scale — how to ask ChatGPT thousands of question at one time
- Introduction to other AI tools like Perplexity and Copilot

More details at: https://www.sozcode.com/courses/master-chatgpt-and-ai-for-everyday-work

# ChatGPT Plus: Advance Skills For Work (1 full day)

<u>WHY LEARN CHATGPT AND AI?</u>
Generative AI is revolutionizing how we work, automating complex tasks and enabling smarter decision-making. This advanced course builds on your foundational knowledge, equipping you with the skills to integrate AI into workflows, automate processes, and leverage ChatGPT's full potential.
**Participants will be provided with a paid ChatGPT account to access advanced features and tools.**
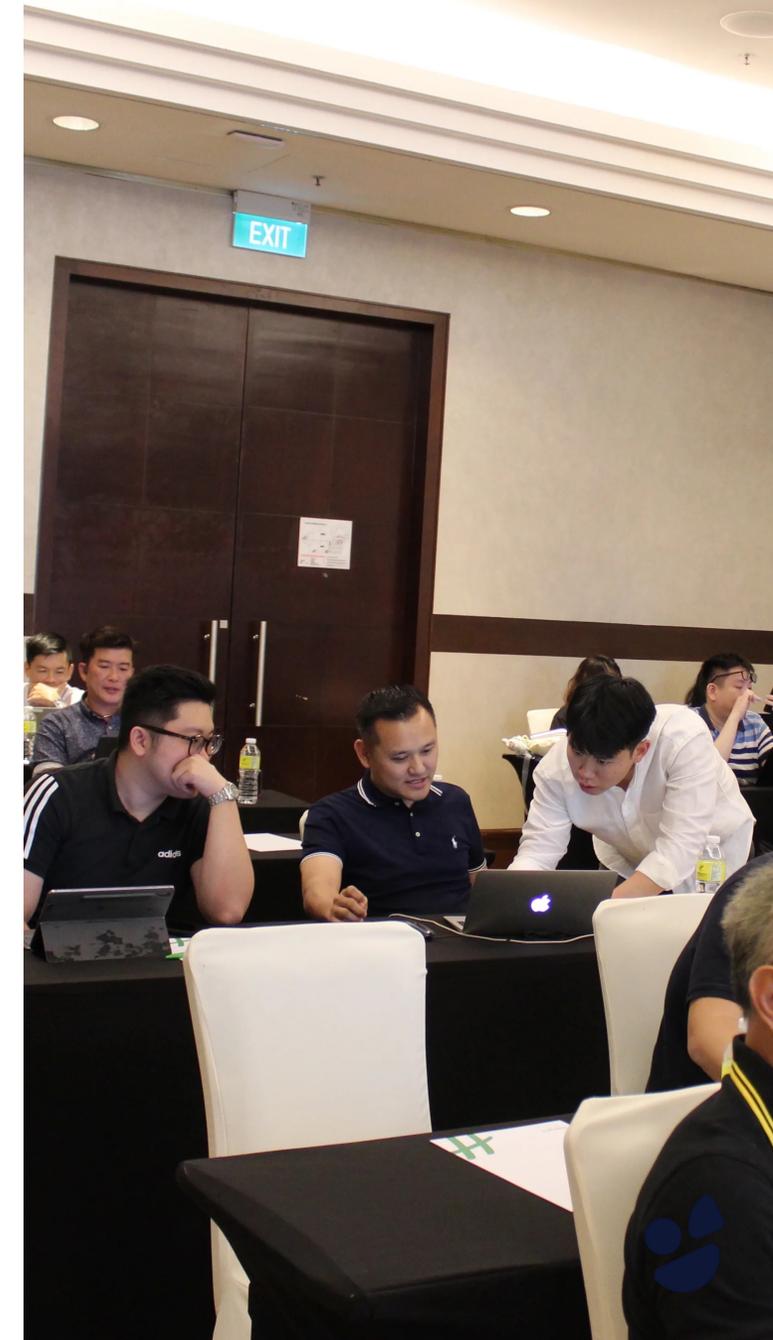
<u>OUTCOMES</u>
By the end of this course, participants will achieve the following:
- **Master ChatGPT's Coding Interpreter** to perform more complex manipulation on data such as regex and table joins
- **Use ChatGPT API in spreadsheets** to automate more task scenarios
- **Build custom AI chatbots (Custom GPTs)** with tailored knowledge and behavior
- **Automate workflows using APIs** to streamline repetitive processes
- **Explore multimodal AI applications** such as audio and vision- based tasks

<u>THIS COURSE IS SUITABLE FOR:</u>
- Participants who have completed the "Master ChatGPT and AI For Everyday Work" course
- Professionals looking to automate workflows and integrate AI into their tasks
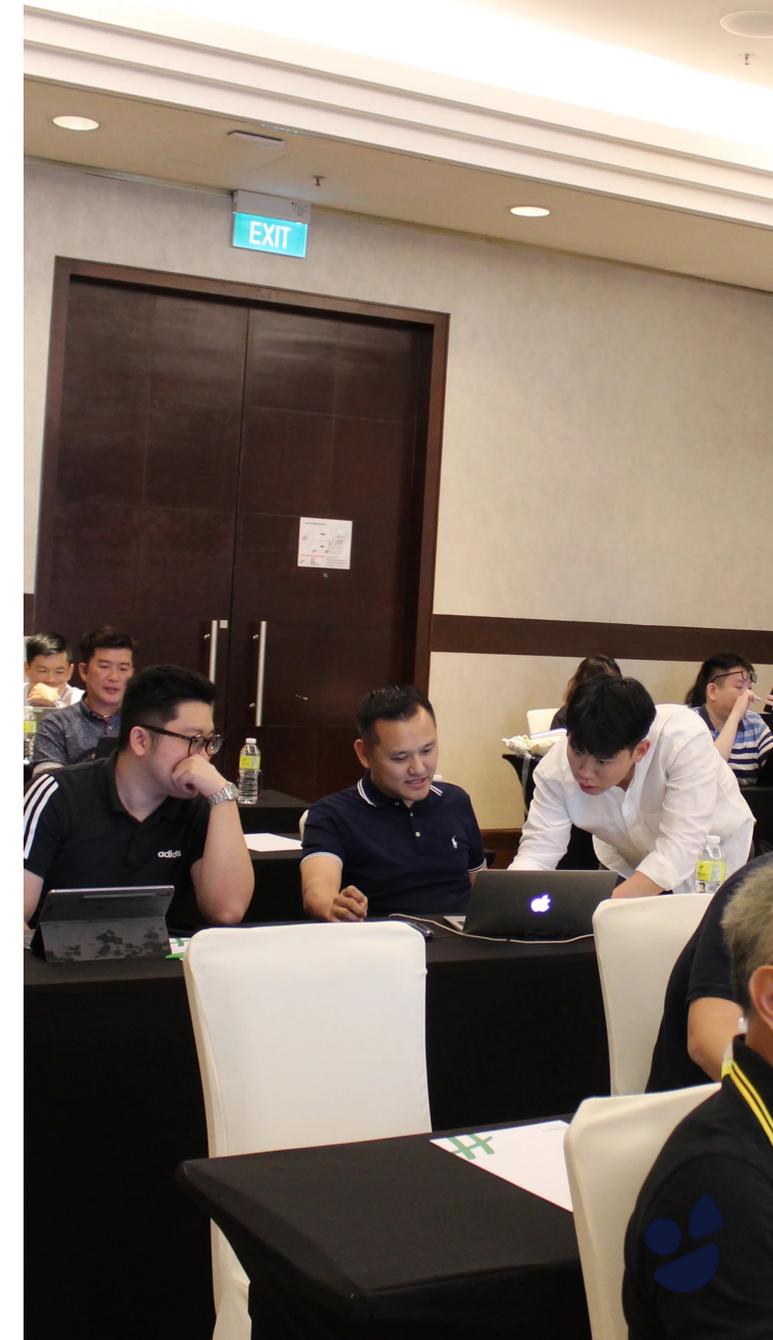- Those interested in advanced AI capabilities, including API automation and custom AI models

More details at: https://www.sozcode.com/courses/chatgpt-plus-advanced-skills-for-work

● ● ● ● ( 2 / 2 )

# ChatGPT Plus: Advance Skills For Work (1 full day)



COURSE SYALLABUS

- Coding Intepreter: Prompt ChatGPT to processes data for you. Achieve complex form of manipulations like regex, table joins etc.

- Excel / Google Sheets Custom Formulas - How to use custom spreadsheet formulas to use ChatGPT within the spreadsheet

- Building and sharing Custom AI Assistants (Custom GPTs)

- Build intelligent automation workflows by integrating ChatGPT API into the process

- Audio capabilities of ChatGPT

- Vision capabilities of ChatGPT

- Exploring similar AI features in Gemini and Gemini API

More details at: https://www.sozcode.com/courses/chatgpt-plus-advanced-skills-for-work

# Python and GPT-4 (ChatGPT) For Beginners (2 full days)



## WHY LEARN PYTHON WITH GPT-4?

Generative AI will be the next most important foundational technology that powers services after the Internet. This course wil teach you how to build intelligent workflows with Python and Generative AI.

## OUTCOMES

By the end of this course, participants will achieve the following:
- Understand programming basics and Python syntax
- Manipulate JSON data structure and tabular data using Pandas
- Understand how the OpenAI API works and its features
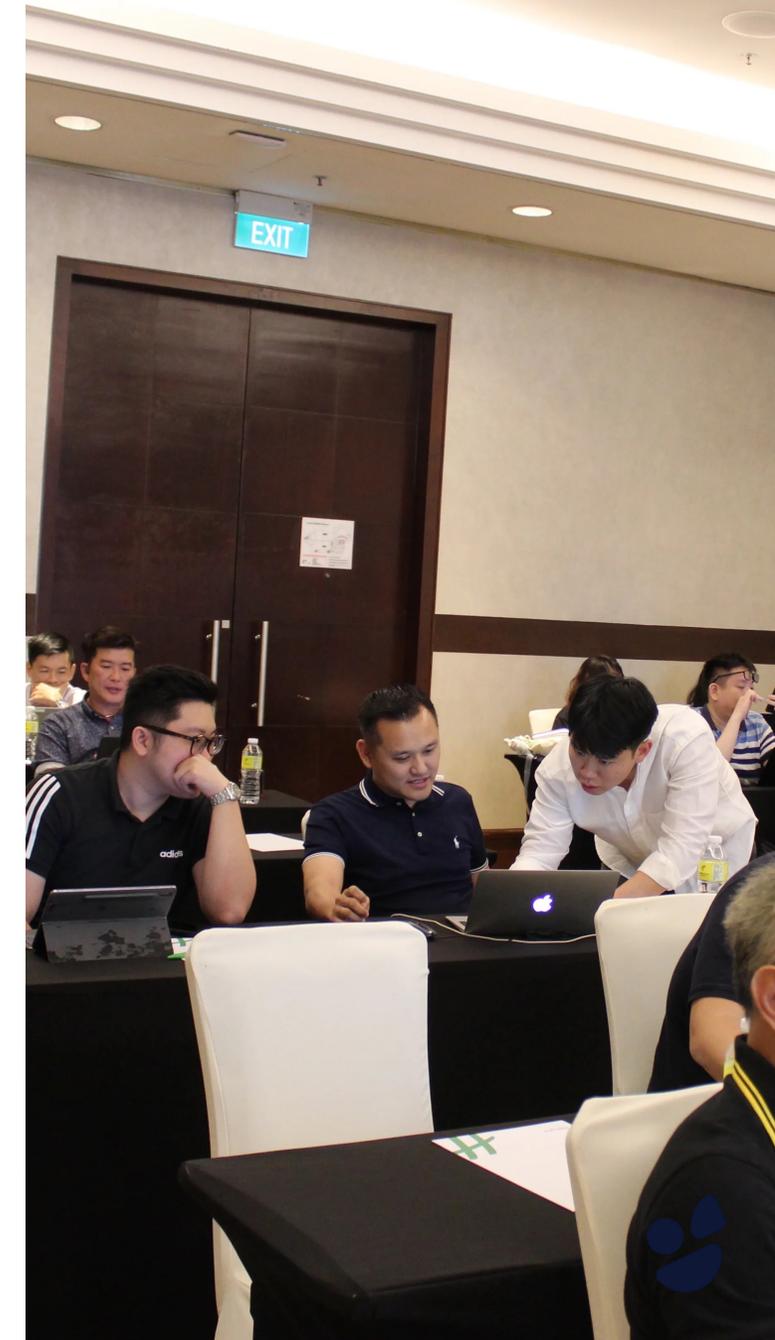- Use Python together with GPT4 API to practical business use cases.

## THIS COURSE IS SUITABLE FOR:
- Beginners who are new to programming and analytics
- Lifelong learners who would like to upgrade their skillsets in an increasingly data driven world
- Apply AI at scale to automate and enhance their daily work

## COURSE SYALLABUS
- Python and programming basics
- Data structure - Lists and dictionaries, how the internet passes data around with JSON
- Basics to Application Programming Interface (Python's request library)
- Basics to tabular data manipulation with Pandas
- Understanding GPT4 API — how to give it a prompt and how to get a response out of it
- Apply GPT4 API to practical business use cases:
  - Intelligent Categorisation
  - Retrieval of data from files like PDF
  - Intelligent Web Scraping

More details at: https://www.sozcode.com/courses/python-and-gpt4-for-beginners

# Automate Work With Programming and AI

A skills pathway that introduces you to Python programming and shows practical examples of how work can be automated using Python and AI

# Python and GPT-4 (ChatGPT) For Beginners (2 full days)



## WHY LEARN PYTHON WITH GPT-4?

Generative AI will be the next most important foundational technology that powers services after the Internet. This course wil teach you how to build intelligent workflows with Python and Generative AI.

## OUTCOMES

By the end of this course, participants will achieve the following:

- Understand programming basics and Python syntax
- Manipulate JSON data structure and tabular data using Pandas
- Understand how the OpenAI API works and its features
- Use Python together with GPT4 API to practical business use cases.

## THIS COURSE IS SUITABLE FOR:

- Beginners who are new to programming and analytics
- Lifelong learners who would like to upgrade their skillsets in an increasingly data driven world
- Apply AI at scale to automate and enhance their daily work

## COURSE SYALLABUS

- Python and programming basics
- Data structure - Lists and dictionaries, how the internet passes data around with JSON
- Basics to Application Programming Interface (Python's request library)
- Basics to tabular data manipulation with Pandas
- Understanding GPT4 API — how to give it a prompt and how to get a response out of it
- Apply GPT4 API to practical business use cases:
  - Intelligent Categorisation
  - Retrieval of data from files like PDF
  - Intelligent Web Scraping

More details at: https://www.sozcode.com/courses/python-and-gpt4-for-beginners

# Automate Excel With Python For Beginners (2 full days)

## WHY LEARN PYTHON?

Python is one of the fastest-growing programme language and is favoured by data analysts globally.

## OUTCOMES

By the end of this course, participants will achieve the following:

- Understand programming basics and Python syntax
- Understand the concept of open source libraries
- Manipulate tabular data using the pandas library
    - Filtering
    - Data Operations (Adding columns)
    - Merge and concat tables
    - Aggregation
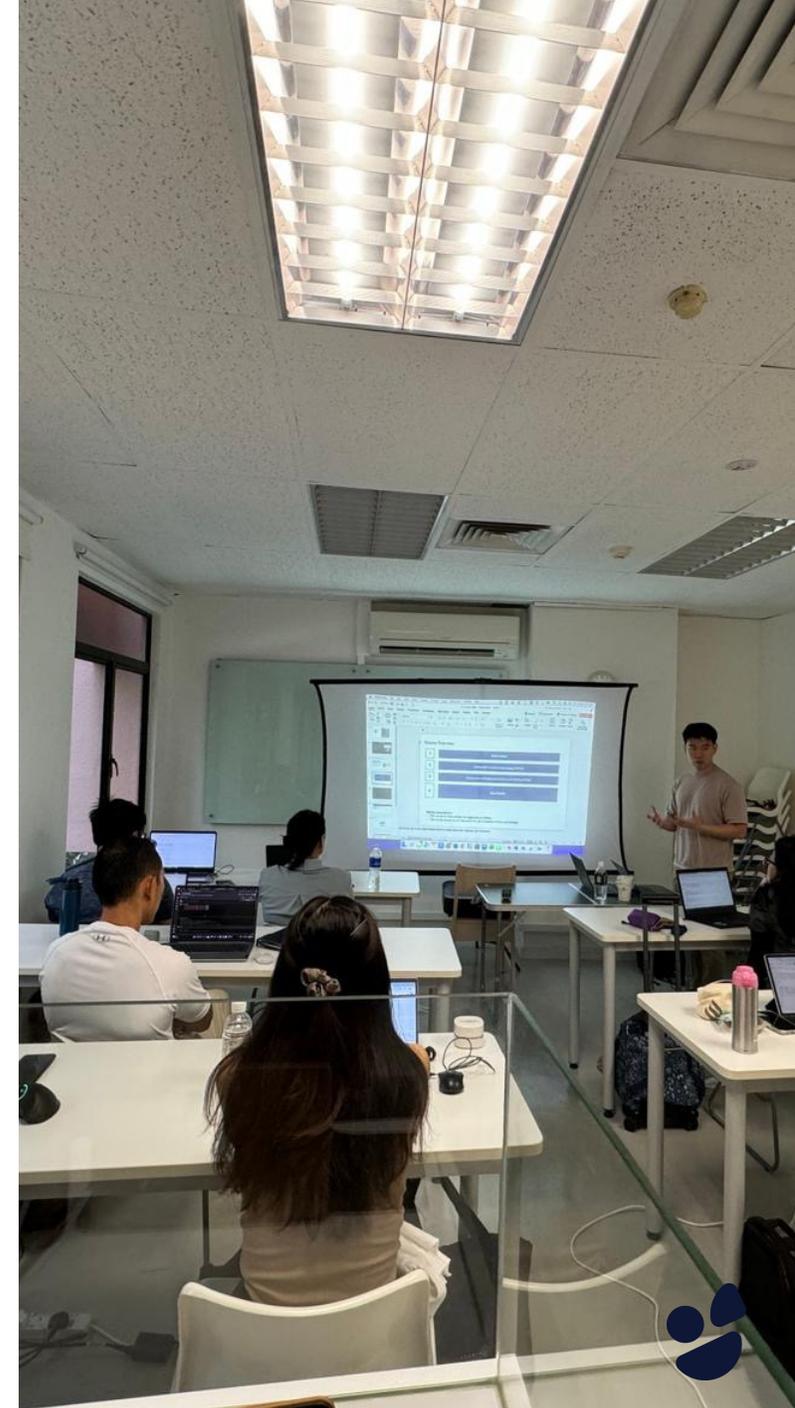    - Dealing with string data types and timestamps

## THIS COURSE IS SUITABLE FOR:

- Beginners who are new to programming and analytics
- Lifelong learners who would like to upgrade their skillsets in an increasingly data driven world
- Apply data analytics and automation in their daily work

## COURSE SYALLABUS

- Python and programming basics
- Data structure - lists and dictionaries, how the internet passes data around with json

- Basics to application programming interface (python's request library)
- Table data manipulation with pandas - querying / selecting data
    - Data operations
    - Merge, concat
    - Aggregation
    - Dealing with string data types and timestamps

More details at: https://www.sozcode.com/courses/automate-excel-with-python-for-beginners

# Python Level Up: Mastering Pandas (1 full day)

## WHY LEARN PYTHON?

Python is one of the fastest-growing programme language and is favoured by data analysts globally.

## OUTCOMES

By the end of this course, participants will achieve the following:

- Manipulate tabular data using the pandas library
  - Filtering
  - Data Operations (Adding columns)
  - Merge and concat tables
  - Aggregation
  - Dealing with string data types and timestamps
  - Dealing with missing and duplicate data
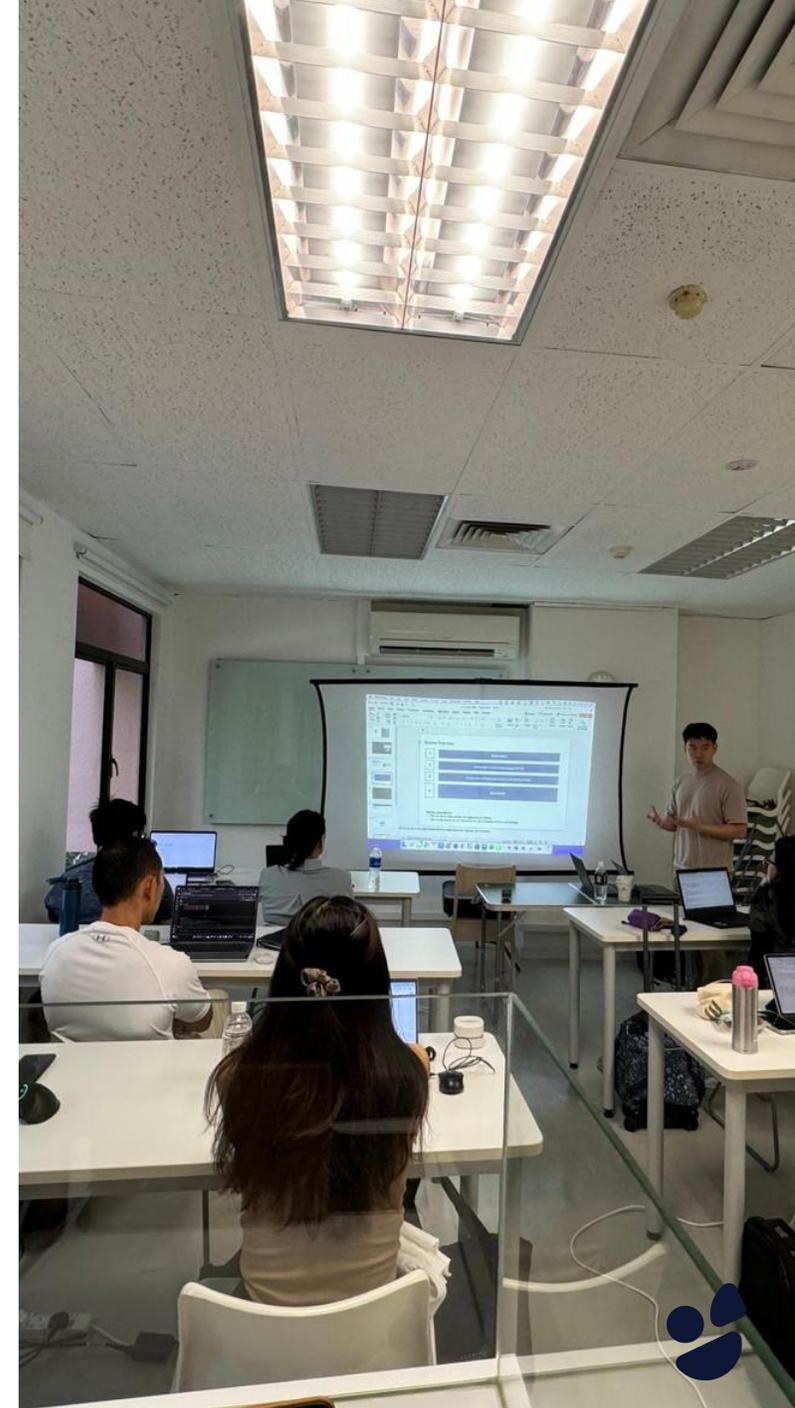  - Renaming and reordering columns

## THIS COURSE IS SUITABLE FOR:

- Learners who have learnt Python basics before and would like to deep dive into the pandas library to manipulate tabular data

## COURSE SYALLABUS

1. **DATA INGESTION WITH PANDAS LIBRARY**
   a. Series and Dataframes.
   b. DataFrame structure and components.
   c. Reading data from CSV, Excel, and JSON
2. **CLEANING DATA WITH PANDAS**
   a. Missing values
   b. Remove duplicates
   c. Fixing data types such as numeric and datetime
   d. Standardising string data with string operators
   e. Renaming and reordering columns
3. **TRANSFORMING DATA WITH PANDAS**
   a. Selecting a subset of rows.
   b. Adding a new column of data through list comprehensions.
   c. Adding a new column of data by applying functions.
   d. Merge and concat tables
   e. Summarising data
   f. Groupby and Aggregation

More details at: https://www.sozcode.com/courses/python-level-up-mastering-pandas

# Data Analytics

A skills pathway that introduces you to Python programming and shows practical examples of how data analytics can be applied at work

# Data and AI With Python For Beginners (2 full days)

## WHY LEARN PYTHON?

Python is one of the fastest-growing programme language and is favoured by data analysts globally.

## OUTCOMES

By the end of this course, participants will achieve the following:

- Understand programming basics and Python syntax
- Understand the concept of open source libraries
- Manipulate tabular data using the pandas library
- Create data visualisations using plotly
- Understand the core concepts behind machine learning
- Create a machine learning model using scikit-learn

## THIS COURSE IS SUITABLE FOR:

- Beginners who are new to programming and analytics
- Lifelong learners who would like to upgrade their skillsets in an increasingly data driven world
- Apply data analytics and automation in their daily work

## COURSE SYALLABUS

- Python and programming basics
- Data structure - lists and dictionaries, how the internet passes data around with json
- Basics to application programming interface (python's request library)
- Table data manipulation with pandas
- Data visualisation with plotly
- Intuition and basics behind machine learning
- Develop a machine learning model with scikit-learn

More details at: https://www.sozcode.com/courses/data-ai-with-python-for-beginners

# Power BI: Transform And Analyse Data (2 full days)

## WHY LEARN POWER BI?

Power BI is the most widely distributed data visualization application and is well integrated with the Microsoft ecosystem.

## OUTCOMES

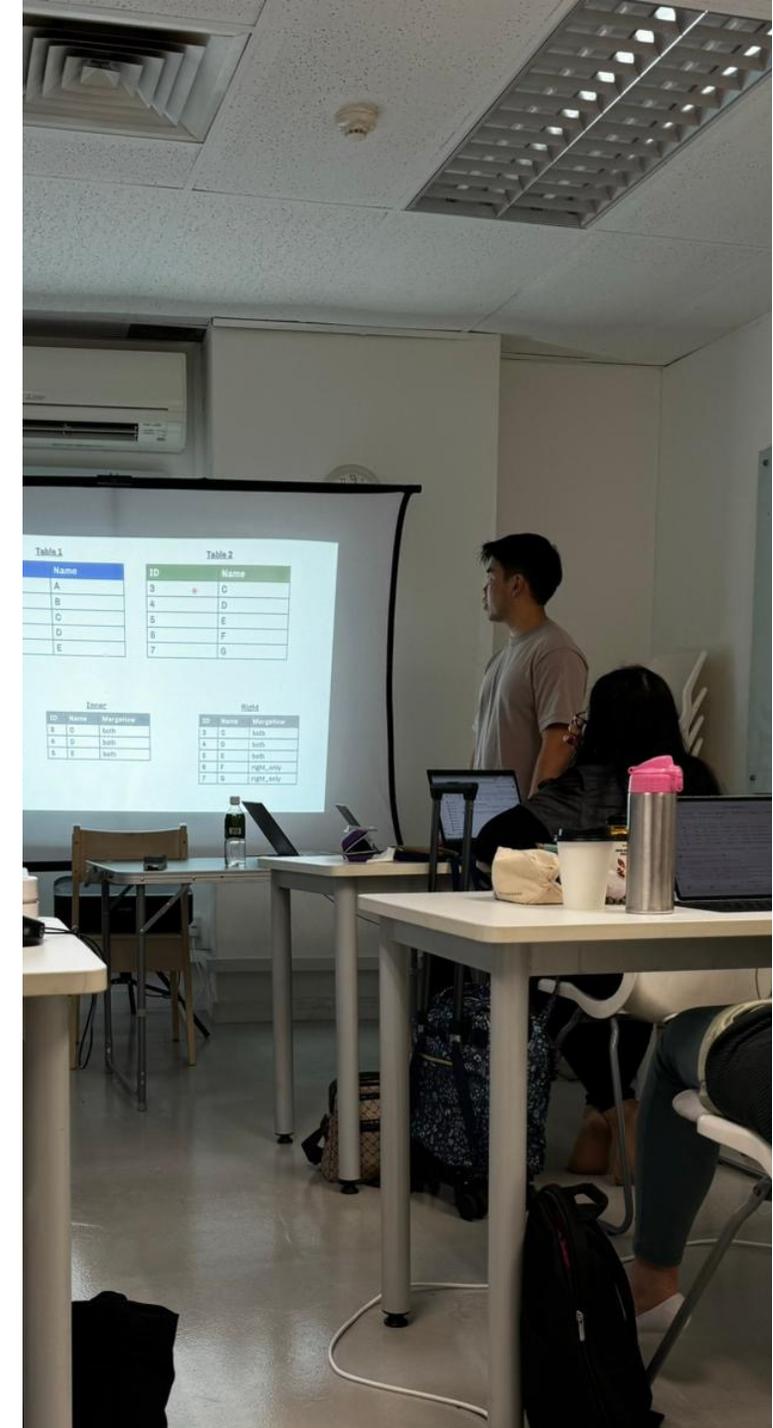By the end of this course, participants will achieve the following:*

- Understand the data value chain and how Power BI can play a role in ETL and the visualisation of data.
- Create interactive dashboards with filters, drillthroughs etc.
- Understand how DAX formulas can be used in different scenarios
- Create relationships between different data tables

## THIS COURSE IS SUITABLE FOR:

- Beginners who are new to programming and analytics
- Lifelong learners who would like to upgrade their skillsets in an increasingly data driven world
- Apply data analytics and automation in their daily work

## COURSE SYALLABUS

- Build visuals and dashboard interactivity
  - Visuals and their different data and styling configurations
  - Filters
  - Drill throughts
- Model Data
  - DAX formulas
  - Measures
  - Time intelligence
  - Date tables
  - Relationships, cardinality, cross-filters
- Load and transform data
  - Power Query

More details at: https://www.sozcode.com/courses/power-bi-transform-and-analyse-data

# Python Level Up: Mastering Pandas (1 full day)

## WHY LEARN PYTHON?

Python is one of the fastest-growing programme language and is favoured by data analysts globally.

## OUTCOMES

By the end of this course, participants will achieve the following:

- Manipulate tabular data using the pandas library
  - Filtering
  - Data Operations (Adding columns)
  - Merge and concat tables
  - Aggregation
  - Dealing with string data types and timestamps
  - Dealing with missing and duplicate data
  - Renaming and reordering columns

## THIS COURSE IS SUITABLE FOR:

- Learners who have learnt Python basics before and would like to deep dive into the pandas library to manipulate tabular data

## COURSE SYALLABUS

1. **DATA INGESTION WITH PANDAS LIBRARY**
   a. Series and Dataframes.
   b. DataFrame structure and components.
   c. Reading data from CSV, Excel, and JSON
2. **CLEANING DATA WITH PANDAS**
   a. Missing values
   b. Remove duplicates
   c. Fixing data types such as numeric and datetime
   d. Standardising string data with string operators
   e. Renaming and reordering columns
3. **TRANSFORMING DATA WITH PANDAS**
   a. Selecting a subset of rows.
   b. Adding a new column of data through list comprehensions.
   c. Adding a new column of data by applying functions.
   d. Merge and concat tables
   e. Summarising data
   f. Groupby and Aggregation

More details at: https://www.sozcode.com/courses/python-level-up-mastering-pandas