



THE UNIVERSITY OF
SYDNEY

Data Analysis with AI Course: ChatGPT and Google Looker Studio

*Centre for
Continuing Education*



Data Analysis with AI Course: ChatGPT and Google Looker Studio



Discover how AI tools like ChatGPT and Google Looker Studio can enhance your data analysis workflows. This course provides data professionals with the tools and techniques to leverage ChatGPT and Google Looker Studio for streamlined data collection, exploration and visualisation. Designed for analysts with basic coding knowledge, this course enables you to automate insights, transform data with ease, and create visual narratives in Google Looker Studio. Develop your data analysis skills and stay ahead in a data-driven world with practical, AI-driven methodologies.

Intended audience

This course is ideal for data analysts and professionals with a basic understanding of coding and data manipulation who want to integrate AI into their workflow and enhance their data visualisation skills in Google Looker.



Course duration

1 session, 7.5 hours total



Time

9am – 4:30pm



Format

Face-to-face
or
Online in real-time



Dates

Browse available
[course dates](#)

Prerequisites

Basic experience with data analysis tools (e.g., Excel, SQL, Python) and foundational coding skills are recommended.



Upon completion

Every participant receives a University of Sydney certificate of completion.



Aims

You will learn to integrate AI tools including ChatGPT and Google Looker Studio seamlessly into your data analysis workflow. By the end of this course, you'll feel empowered to use AI for more efficient, accurate, and insightful data analysis.



Outcomes

By the end of this course, you should be able to:

- apply AI-driven techniques for data collection and preparation using ChatGPT
- perform advanced data exploration and visualisation in Google Looker Studio
- use ChatGPT to automate complex data cleaning and transformation tasks
- create custom dashboards with interactive, multi-layered visualisations
- draft insightful narratives and comprehensive reports that communicate data insights effectively.



Content

Introduction to AI for data analysis

- Overview of AI's growing role in data analysis.
- Introduction to AI-enabled tools: ChatGPT, Google Looker Studio, and others (RStudio, Anaconda, VS Code).
- Comparative chart of tool integrations to help participants understand the broader ecosystem.

Data collection and preparation with ChatGPT

- Generating structured data collection plans with ChatGPT
- Exploring automated approaches for data validation
- Refining data extraction using AI-enhanced iterative prompts

In-depth data exploration in Google Looker Studio

- Understanding Looker Studio's interface and features
- Importing datasets and using filters for exploratory analysis

AI-Driven data cleaning and transformation with ChatGPT

- Structuring ChatGPT prompts to assist in cleaning and transforming data
- Drafting basic code snippets for data wrangling tasks in Python or SQL

Building advanced visualisations in Google Looker Studio

- Customising charts and creating layered visualisations
- Using interactive features like conditional formatting and complex filters

Automating insights with ChatGPT and Google Looker Studio

- Combining ChatGPT's narrative generation with Looker Studio dashboards
- Introduction to basic scripting for automation workflows

Presenting and reporting results

- Using ChatGPT to draft concise summaries and data narratives
- Enhancing visual storytelling with Looker Studio reports
- Final project: creating an AI-powered report



“The facilitator was very good and communicated/taught well, was very helpful to those in the course if they had any questions. The information and examples of the systems were very handy and will definitely help me improve reporting and processes within my own role.”

Lauren Panda



Delivery style

Workshop.

Materials

Course materials, including presentation, booklet and exercises, are provided electronically

What you need to do before the course

To participate in this course, you will need a [ChatGPT](#) account (choose the free or paid version) and a Google account. Please bring your account login details with you to class.

Face-to-face classes

Please bring your own laptop with all required accounts already set up.

Online classes

For the best experience, we recommend using a computer with a large monitor or dual screens/devices. Small laptop screens can make it difficult to follow the facilitator’s display while working in the software.



Organisational training and development

This course can be delivered as a private session for groups, and tailored to meet the needs of your business. Contact us to discuss our range of organisational training solutions.

[Learn more](#)



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We recognise and pay respect to the Elders and communities – past, present, and emerging – of the lands that the University of Sydney's campuses stand on. For thousands of years they have shared and exchanged knowledges across innumerable generations for the benefit of all.

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inspire leadership

For more information

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