



AI@Work – 2 Days Masterclass

Training Workshop on AI & Gen AI Technologies

JAN 2026



Program Content

- ⊗ The Program will be delivered in 2 days
- ⊗ The program has 2 options that allocate different weights to Theory, Demos, hands-on Exercises and Group Projects.
- ⊗ Adding 2x 15 mins short breaks + 1x 60 mins long break adds 1.5 hour to the program per day

	Theory	Live Demos	Hands-on Exercises	Group Projects & Competition	Total
Option 01	2:15	4:00	0:00	4:10	10:25
Option 02	0:00	3:00	3:00	4:00	10:00

01 Introduction to AI

45 Minutes

What's NOT an AI
 What is an AI
 How Data Fuels AI
 General AI (AGI) vs Narrow AI (ANI)
 Types of AI: Analytical, Vision, Language, Gaming
 Real Life Examples of AI
 The Turing Test
 Kahoot Interactive Quiz



02 Real Life Applications of AI in various Sectors of the Economy

45 Minutes

AI in Education: Personalized Tutoring
 AI in Healthcare: Medical Imagery, Protein Folding
 AI in Banking: Fraud Detection, Customer Segmentation
 AI in Oil & Gas: Geological Analysis
 AI in Manufacturing: Downtime Prediction
 AI in Retail: The Story of Shein



03 Generative AI Chat Bots

60 Minutes

What are LLMs
Difference between Generative AI and Search Engines
 Live Demo: ChatGPT keeps context while Google search forgets it
What is a Prompt?
Prompt Engineering
The Rule of Thumb: Role-Context-Task
 Live Demo: Bad prompt vs good prompt: A Children's Poem
 Iteration: Single shot vs multi shot prompting
 Live Demo: An Itinerary for a family trip to Greece (multi-shot)

What are Hallucinations? How much you should trust your AI Assistant?
 Top AI Chat Bots on the Market

ChatGPT
 Live Demo: Where to access Chat GPT: Web vs Mobile vs Desktop App
 Live Demo: Ask AI to draw an image for you
 Live Demo: Upload an image and ask AI to describe it
 Live Demo: 2-way conversation with AI (Advanced Voice Mode)
 Live Demo: Your AI Assistant can see (Vision Mode)
 Asking students to download ChatGPT App on their phone and choose a voice

Microsoft Copilot
 Live Demo: Chatting with MS Copilot: Edge Browser vs Web vs Mobile



Google Gemini
Live Demo: Chatting with Gemini: Web vs Mobile
Anthropic Claude
Live Demo: Chatting with Claude

04 Group Competition: Prompt Engineering

95 Minutes

Participants will be divided into groups of 3
Each group has to come up with a complex multi-step prompt and execute it using proper prompt engineering (30 mins)
Each group will get 10 minutes to present their prompt in front of the class, showing the iterative prompting they used (60 mins)
Class will vote for the Best Project (5 mins)



05 Responsible & Ethical AI

45 Minutes

Threats & Challenges of Generative AI
Copyright
Plagiarism
Impact on Creativity
Fair Competition
Fake News: Is Seeing still believing?
Will AI Take my job?
Responsible & Ethical AI
Self-Regulation Initiatives
Laws and regulations around AI
The Philosophical discussion around AI
Will AI Take over the World?



Day 02

06 Generative AI for Office Work & Productivity

120 Minutes

Live Demo: AI is your email assistant
Create a mass email to Customers about a promo
Use Prompt Engineering to alter Tone, Format, Length
Use AI to generate photos for the email

Live Demo: AI with your work documents and Reports
Summarizing large documents
Translating documents
Q&A with your document

Live Demo: AI as a browsing assistant
Summarizing browsed web pages
Translating web pages
Q&A with web pages

Live Demo: AI is your Research Assistant
AI conducts prelim market research
Iterate, fine-tune, format



Live Demo: AI is your ideation & brainstorming buddy
Generate 10 ideas about a new product/service/initiative

Live Demo: AI is your planning assistant
Expand one of the ideas into a detailed execution plan

Live Demo: AI is your Presentation assistant
Summarize the plan into 10 slides layout
Generate a Power Point Presentation from the layout

Live Demo: AI is your Financial Assistant
Upload a financial Excel Sheet and ask for Exploratory Data Analysis
Ask your AI to extract the key insights from the Data
Ask your AI to propose and create 5 visual charts
Ask your AI a particular question about your Data

Live Demo: AI is your HR Assistant
Upload a CV and ask if applicant has certain skill
Upload a Job Description and 5 CVs and ask AI to filter them

Live Demo: AI is your Marketing and Social Media Assistant
Create a social media campaign
Generate images for the campaign

Live Demo: AI is your Legal Assistant
Ask AI you draft an NDA or MOU template
Upload a contract and ask AI to highlight the risks and liabilities

Live Demo: AI is your Data Analyst
Upload a non-numerical Excel Sheet and ask for Exploratory Data Analysis
Ask your AI to extract the key insights from the Data
Ask your AI to propose and create 5 visual charts
Ask your AI a particular question about your Data

Live Demo: AI as a Programming Assistant:
Creating a Distance Conversion App from an image (ChatGPT)
Creating a Game of Tic Tac Toe (Claude)
Creating a Game of Snake (ChatGPT vs Claude)

07 Group Competition: Creating an App or a Website

95 Minutes

Participants will be divided into groups of 3
Each group has to come up with an idea for an app or a website and execute it using proper prompt engineering (30 mins)
Each group will get 5 minutes to present their project in front of the class, showing the iterative prompting they used (40 mins)
Class will vote for the Best Project (5 mins)

08 Generative AI for Art, Images, Design, A/V

60 Minutes

Gen AI for Art, Images, Design

Live Demo: DALL-E

Live Demo: Midjourney

Gen AI for Video & Animation

Live Demo: Luma Dream Machine

Live Demo: Runway

Live Demo: Sora

Live Demo: Kling

Generative AI for Music & Audio

Live Demo: Suno.ai



09 Individual Competition: Using Art Tools

60 Minutes

Each student will create 1 or multiple images using Prompting then animate it (30 mins)

Instructor will show the projects on screen (15mins)

Class will vote for the 3 finalists (10 mins)

Class will vote for the winner (5 mins)



Option 02

Day 01

01 Generative AI Chat Bots

120 Minutes

Introduction to LLMs and ChatGPT

What are LLMs

Difference between Generative AI and Search Engines

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What is a Prompt?

Prompt Engineering

The Rule of Thumb: Role-Context-Task

Live Demo: Bad prompt vs good prompt: A Children's Poem *

Iteration: Single shot vs multi shot prompting

Live Demo: An Itinerary for a family trip to Greece (multi-shot)*

What are Hallucinations? How much you should trust your AI Assistant?

Top AI Chat Bots on the Market

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Live Demo: Where to access Chat GPT: Web vs Mobile vs Desktop App

Live Demo: Ask AI to draw an image for you*

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Live Demo: 2-way conversation with AI (Advanced Voice Mode)

Live Demo: Your AI Assistant can see (Vision Mode)*



(*) Student Exercise: Students to replicate the experiment on their laptops

Microsoft Copilot

Live Demo: Chatting with MS Copilot: Edge Browser vs Web vs Mobile*

Google Gemini

Live Demo: Chatting with Gemini: Web vs Mobile*

Anthropic Claude

Live Demo: Chatting with Claude*

02 Generative AI for Office Work & Productivity – PART 1

120 Minutes



Live Demo: AI is your email assistant

Create a mass email to Customers about a promo
Use Prompt Engineering to alter Tone, Format, Length
Use AI to generate photos for the email*

Live Demo: AI with your work documents and Reports Summarizing large documents

Translating documents
Q&A with your document*

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Expand one of the ideas into a detailed execution plan*

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Summarize the plan into 10 slides layout
Generate a Power Point Presentation from the layout*

03 Group Competition: Prompt Engineering

120 Minutes



Participants will be divided into groups of 3

Each group has to come up with a complex multi-step prompt and execute it using proper prompt engineering (45 mins)

Each group will get 10 minutes to present their prompt in front of the class, showing the iterative prompting they used (60 mins)

Class will vote for the Best Project (15 mins)

(*) Student Exercise: Students to replicate the experiment on their laptops

04 Generative AI for Office Work & Productivity – PART 2

120 Minutes



Live Demo: AI is your Financial Assistant

Upload a financial Excel Sheet and ask for Exploratory Data Analysis

Ask your AI to extract the key insights from the Data

Ask your AI to propose and create 5 visual charts

Ask your AI a particular question about your Data*

Live Demo: AI is your HR Assistant

Upload a CV and ask if applicant has certain skill

Upload a Job Description and 5 CVs and ask AI to filter them*

Live Demo: AI is your Marketing and Social Media Assistant

Create a social media campaign

Generate images for the campaign*

Live Demo: AI is your Legal Assistant

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Class will vote for the Best Project (15 mins)

(*) Student Exercise: Students to replicate the experiment on their laptops

About Synaptica

Synaptica is an applied artificial intelligence company focused on transforming complex business challenges into intelligent, scalable products. We operate at the intersection of AI strategy, software engineering, and industry-specific innovation, helping organizations move from experimentation to measurable outcomes.

Mission

At Synaptica, we empower organisations to unlock the full potential of Artificial Intelligence by transforming visionary ideas into executable strategies and intelligent systems. Through expert consultancy, applied AI design, and tailored software development, we guide businesses from ideation to implementation, bridging innovation with measurable operational and economic impact across the GCC and beyond.

Vision

To build a future where artificial intelligence is seamlessly woven into business strategy and operational infrastructure, empowering organisations to move from ideation to execution and lead with intelligence. Synaptica aspires to become a trusted builder of applied AI systems and knowledge platforms in the Middle East, advancing responsible AI adoption and strengthening the region's role in the global AI ecosystem.

Values

Intelligence with Purpose

We build artificial intelligence to solve real problems and deliver measurable impact. Innovation is meaningful only when it improves decisions, operations, and outcomes.

Regional Relevance, Global Standards

We build AI solutions grounded in the language, culture, and regulatory realities of the Middle East while meeting global technology and engineering standards.

Knowledge as Infrastructure

We believe structured knowledge, language, and domain expertise are the foundations of intelligent systems. Building knowledge platforms enables long-term intelligence and innovation.

From Strategy to Systems

We move beyond ideas and prototypes into operational intelligent systems. Execution is the bridge between innovation and value.

Responsibility by Design

Trust, transparency, and ethical AI development are embedded into every system we create. Responsible AI is a foundational principle, not an afterthought

The senior team behind Synaptica has more than 40 years' of experience in developing Digital Transformation strategies in GCC/MENA



THE SCIENCE OF CONNECTIONS

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