



BIYANI
GROUP OF COLLEGES



GENERATIVE

AI

Tools Workbook

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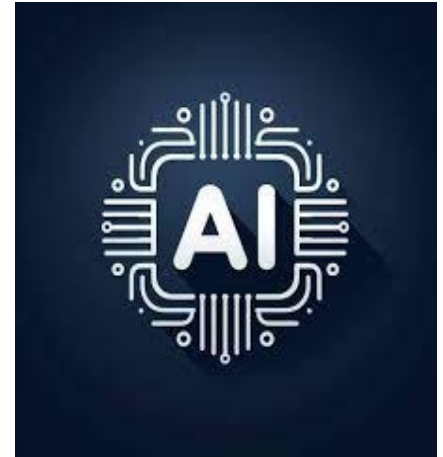
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Introduction to Artificial Intelligence (AI)

- Artificial Intelligence (AI) is one of the most important technologies of the modern digital era. AI is a branch of computer science that enables machines and software systems to perform tasks that normally require human intelligence.
- AI systems can learn from experience, analyse large amounts of data, identify patterns, understand natural language, recognise images, make predictions and support decision-making.
- AI does not replace human creativity; instead, it works as an intelligent assistant that helps people complete tasks faster and more effectively.

Examples of AI in daily life:

- Voice assistants in smartphones
- Search engines
- Recommendation systems on video and shopping platforms
- Face recognition systems
- Chatbots
- Smart cameras
- Navigation applications



AI is becoming an important skill for students because it is transforming education, industries and future careers.

Need and Importance of Artificial Intelligence

The need for Artificial Intelligence is increasing because modern organisations generate huge amounts of information that require fast analysis and decision-making.

Major benefits of AI:

1. Automation:

AI can perform repetitive tasks automatically, saving time and reducing human effort.

2. Better Decision Making:

AI analyses data and provides useful predictions and insights.

3. Increased Productivity:

AI tools help students, teachers, researchers and professionals complete work efficiently.

4. Personalization:

AI provides personalised learning, recommendations and services.

5. Innovation:

AI supports the creation of new products, services and creative solutions.

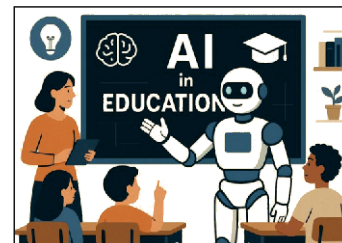
AI is now used in education, healthcare, banking, agriculture, business, transportation, entertainment and research.

Applications of Artificial Intelligence

Artificial Intelligence has applications in almost every sector.

Education:

- AI-based learning platforms
- Automatic question generation
- Personalised learning assistance
- Smart tutoring systems
- Assignment and content support



Healthcare:

- Disease prediction
- Medical image analysis
- Drug research
- Virtual health assistants



Business and Marketing:

- Customer support chatbots
- Market analysis
- Advertisement creation
- Sales prediction



Banking and Finance:

- Fraud detection
- Risk analysis
- Automated customer service

Agriculture:

- Crop monitoring
- Weather prediction
- Smart farming



Transportation:

- Navigation systems
- Traffic prediction
- Autonomous vehicle research



Media and Entertainment:

- Music generation
- Video creation
- Recommendation systems

Cyber Security:

- Threat detection
- Security monitoring



What is Generative AI?

Generative AI is a specialised area of Artificial Intelligence that can create new content based on user instructions.

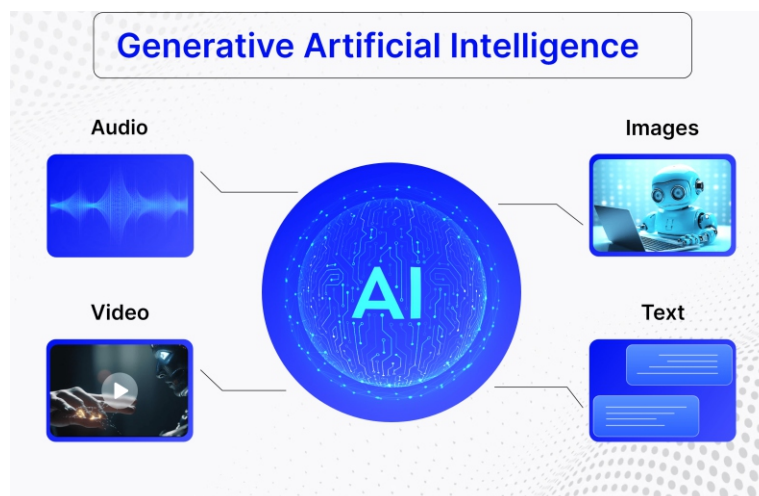
Unlike traditional AI systems that mainly analyse information, Generative AI can generate new outputs such as :

- Text documents
- Images
- Presentations
- Videos
- Audio
- Music
- Computer programs
- Designs

Generative AI works using advanced machine learning models trained on large amounts of data. Users interact with these systems using simple instructions called prompts.

Examples of Generative AI uses:

- Creating assignments and reports
- Designing posters
- Preparing presentations
- Creating marketing content
- Generating creative ideas
- Developing websites
- Producing educational materials



Introduction to Prompt Engineering:

In the rapidly expanding universe of Artificial Intelligence, especially with the rise of powerful generative AI models like Large Language Models (LLMs) and image generators, a new discipline has emerged as critical to unlocking their full potential: Prompt Engineering.

What is Prompt Engineering?

Prompt engineering is the art and science of designing, refining, and optimizing inputs (known as "prompts") to effectively guide AI models towards generating desired, high-quality, and relevant outputs. It's about communicating with AI in a way that maximizes its capabilities and minimizes unintended or irrelevant responses. Think of it as learning the precise language to speak to an intelligent but literal assistant.

A "prompt" is simply the instruction, question, or context you provide to an AI model. It can be a simple phrase, a complex set of instructions, a piece of text for summarization, or even a detailed scenario.



**PROMPT
ENGINEERING**



Why is Prompt Engineering Important?

The importance of prompt engineering stems from several key factors:

Unlocking AI's Full Potential: AI models are powerful, but they are not inherently intuitive in understanding human intent. A poorly crafted prompt can lead to generic, irrelevant, or even incorrect outputs. Effective prompt engineering allows users to tap into the sophisticated knowledge and generative abilities of AI, eliciting nuanced, creative and highly specific results.

Accuracy and Relevance: By providing clear, concise, and context-rich prompts, you significantly increase the likelihood of the AI generating accurate and relevant information. Ambiguity in a prompt often leads to ambiguity in the output.

Efficiency and Time Saving: Well-engineered prompts reduce the need for multiple iterations and extensive post-generation editing. Instead of repeatedly tweaking the AI's output, a good prompt often gets you closer to the desired result on the first try, saving valuable time and effort.

Mitigating Bias and Harmful Outputs: AI models, especially those trained on vast internet data, can sometimes reflect biases present in that data. Prompt engineering can be used to steer the AI away from biased language, stereotypical representations, or the generation of harmful content by explicitly instructing it to adhere to ethical guidelines, maintain neutrality, or focus on diverse perspectives.

Customization and Personalization: Prompt engineering allows users to customize AI outputs to specific needs, target audiences, or brand voices. Whether you need a formal business report, a casual social media post, or a technical explanation, the prompt can guide the AI to adopt the appropriate tone, style and format.

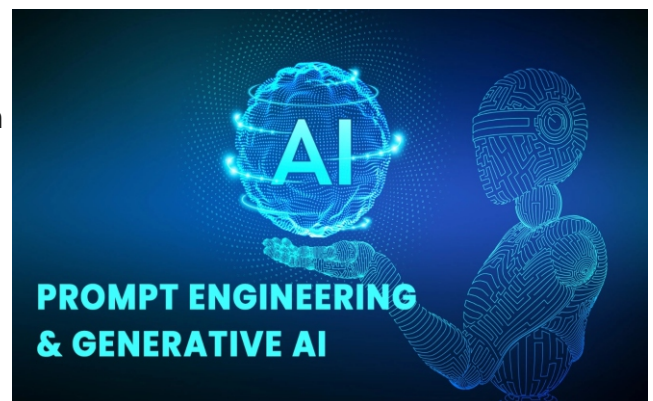
Problem-Solving and Creativity: Prompt engineering is not just about getting factual answers; it's also about leveraging AI for brainstorming, creative writing, innovative problem-solving, and exploring hypothetical scenarios. The right prompt can turn an AI into a powerful collaborative partner.

Skill for the Future: As AI becomes more ubiquitous, the ability to effectively communicate with and direct AI models will become a fundamental skill across many professions. Prompt engineering is not just for technical experts; it's becoming a literacy for the AI age.

Core Principles of Prompt Engineering:

While prompt engineering can involve complex techniques, a foundational understanding of its core principles can significantly enhance your interactions with AI.

- 1. Be Clear and Specific**
- 2. Provide Context**
- 3. Define the Desired Format and Length**
- 4. Specify Tone and Style**
- 5. Break Down Complex Tasks**
- 6. Iterate and Refine**



What is an AI Tool?

An AI tool is a software application that uses Artificial Intelligence technology to help users complete specific tasks.

Different AI tools are designed for different purposes.

Popular AI tools :

1. ChatGPT – Writing, learning, problem solving
2. Google Gemini – AI assistant and research
3. Claude – Writing and analysis
4. Microsoft Copilot – Productivity assistance
5. Perplexity AI – AI search and research
6. Gamma – AI presentations
7. Canva AI – Graphic design and social media content
8. Leonardo AI – Image generation
9. Midjourney – Creative image generation
10. DALL·E – AI image creation
11. Adobe Firefly – Creative design
12. Runway – AI video generation
13. Pika – AI video creation
14. Synthesia – AI presenter videos
15. ElevenLabs – AI voice generation
16. Suno AI – AI music creation
17. Notion AI – Notes and productivity
18. Grammarly AI – Writing improvement
19. GitHub Copilot – Coding assistance
20. Jasper AI – Marketing content creation



These tools help students and professionals in creativity, research, communication, design and productivity.

Task 1: Create an Invitation Card using AI

AI Tool: Canva AI

Website: <https://www.canva.com>

Objective:

Create professional invitation cards using Generative AI.



Working Steps:

1. Open Canva website
2. Create free account
3. Search Invitation Card
4. Use Magic Design
5. Enter requirement
6. Edit details
7. Download card

Sample Prompt:

Create a modern birthday invitation card for a college student with attractive colours, date, time and venue details.

Assignment:

Create an invitation card for your birthday party or college event.

Task 2: Create Advertisement Poster using AI

AI Tool: Canva AI

Website: <https://www.canva.com>

Objective:

Create attractive advertisement posters.



Working Steps:

1. Open Canva
2. Select Poster template
3. Use Magic Design
4. Enter product/event details
5. Generate poster
6. Download design

Sample Prompt:

Create an advertisement poster for a new AI learning course for college students.

Assignment:

Create an advertisement poster for your college activity.

Task 3: Create PPT Presentation using AI

AI Tool: Gamma AI

Website: <https://www.gamma.app>

Objective:

Create professional presentations using AI.



Working Steps:

1. Open Gamma
2. Create free account
3. Select presentation
4. Enter topic
5. Generate slides
6. Edit and export

Sample Prompt:

Create a 10-slide presentation on Artificial Intelligence in Education.

Assignment:

Create PPT on your subject topic.

Task 4: Create Story using AI

AI Tool: Claude AI

Website: <https://www.claude.ai>

Objective:

Develop creative writing skills.



Working Steps:

1. Open Claude AI
2. Enter story requirement
3. Improve with prompts
4. Finalize story

Sample Prompt:

Write an inspiring story about a student who uses AI to solve a real-world problem.

Assignment:

Create your own short story.

Task 5: Create Professional CV using AI

AI Tool: Microsoft Copilot

Website: <https://www.copilot.microsoft.com>

Objective:

Prepare professional resumes.



Working Steps:

1. Enter education details
2. Add skills
3. Generate CV
4. Edit and save

Sample Prompt:

Create a professional CV for a BCA student applying for software internship.

Assignment:

Create your own professional CV.

Task 6: Create Cover Letter using AI

AI Tool: Microsoft Copilot

Website: <https://www.copilot.microsoft.com>

Objective:

Create job application letters.



Working Steps:

1. Enter job role
2. Provide details
3. Generate letter
4. Edit

Sample Prompt:

Write a cover letter for a computer science student applying for internship.

Assignment:

Create a cover letter.

Task 7: Create Website Page using AI

AI Tool: Framer AI

Website: <https://www.framer.com>

Objective:

Create website without coding.

Working Steps:

1. Open Framer
2. Use AI generator
3. Enter idea
4. Generate page
5. Edit and publish

Sample Prompt:

Create a modern college department website homepage.

Assignment:

Create a website homepage.



Task 8: Create College Promotion Video

AI Tool: Canva AI

Website: <https://www.canva.com>

Objective:

Create promotional videos.

Working Steps:

1. Open Canva
2. Select video
3. Enter prompt
4. Generate video
5. Add music
6. Export

Sample Prompt:

Create a 60-second promotional video for a modern college.

Assignment:

Create college promotion video.



Task 9: Create Instagram Reel using AI

AI Tool: Canva

Website: <https://www.canva.com>

Objective:

Create social media content.

Working Steps:

1. Select Reel template
2. Add topic
3. Generate design
4. Add animation
5. Export

Sample Prompt:

Create an Instagram reel promoting an AI workshop.

Assignment:

Create an educational reel.



Task 10: Generate AI Images

AI Tool: Leonardo AI

Website: <https://leonardo.ai>

Objective:

Create AI images.

Working Steps:

1. Open tool
2. Enter description
3. Select style
4. Generate image

Sample Prompt:

Create a futuristic smart classroom with AI technology.

Assignment:

Create three AI images.



Leonardo.Ai

Task 11: Create Architecture View of Building

AI Tool: ChatGPT Image

Website: <https://www.chatgpt.com>

Objective:

Create architectural visualization.



Working Steps:

1. Describe building
2. Generate image
3. Improve design
4. Save output

Sample Prompt:

Create a modern 3D architecture view of a college building.

Assignment:

Design your dream college building.

Task 12: Create Logo using AI

AI Tool: Canva AI

Website: <https://www.canva.com>

Objective:

Design brand identity.



Working Steps:

1. Open logo maker
2. Enter brand name
3. Generate logo
4. Modify design

Sample Prompt:

Create a modern logo for an AI education startup.

Assignment:

Create a logo for your department club.

Task 13: Create Social Media Campaign

AI Tool: Jasper AI

Website: <https://www.jasper.ai>

Objective:

Plan digital marketing campaigns.



Working Steps:

1. Select event/product
2. Generate ideas
3. Create captions
4. Prepare plan

Sample Prompt:

Create a 7-day Instagram marketing campaign for a college event.

Assignment:

Create social media campaign.

Task 14: Create Product Description

AI Tool: Jasper AI

Website: <https://www.jasper.ai>

Objective:

Create marketing content.



Working Steps:

1. Enter product details
2. Generate description
3. Improve language

Sample Prompt:

Write product description for a smart watch.

Assignment:

Create description for any product.

Task 15: Create Business Plan

AI Tool: Google Gemini

Website: <https://www.gemini.google.com>

Objective:

Develop startup ideas.



Working Steps:

1. Give business idea
2. Generate plan
3. Analyse market
4. Prepare report

Sample Prompt:

Create business plan for AI education startup.

Assignment:

Prepare your startup idea.

Task 16: Create Research Report using AI

AI Tool: Perplexity AI

Website: <https://www.perplexity.ai>

Objective:

Prepare research reports.



Working Steps:

1. Enter topic
2. Collect information
3. Check references
4. Create report

Sample Prompt:

Prepare report on impact of AI in education.

Assignment:

Create research report on technology topic.

Task 17: Create Data Analysis Report

AI Tool: ChatGPT

Website: <https://www.chatgpt.com>

Objective:

Analyse data using AI.

Working Steps:

1. Upload data
2. Ask analysis
3. Generate insights
4. Prepare report

Sample Prompt:

Analyse student feedback data and prepare report.

Assignment:

Analyse survey dataset.



ChatGPT

Task 18: Create Quiz using AI

AI Tool: ChatGPT

Website: <https://www.chatgpt.com>

Objective:

Generate educational quizzes.

Working Steps:

1. Select topic
2. Enter requirements
3. Generate questions
4. Review answers

Sample Prompt:

Create 20 MCQ questions on computer networks.

Assignment:

Create quiz for your subject.



ChatGPT

Task 19: Create Study Notes using AI

AI Tool: NotebookLLM

Website: <https://www.notebooklm.com>

Objective:

Create revision notes.



Working Steps:

1. Select chapter
2. Enter topic
3. Generate notes
4. Add examples

Sample Prompt:

Create easy notes on Database Management System.

Assignment:

Create notes of one chapter.

Task 20: Summarize PDF using AI

AI Tool: NotebookLLM

Website: <https://www.notebooklm.com>

Objective:

Summarize documents.



Working Steps:

1. Upload PDF
2. Ask summary
3. Generate points

Sample Prompt:

Summarize this PDF into exam notes.

Assignment:

Summarize academic PDF.

Task 21: Create AI Voice Content

AI Tool: ElevenLabs

Website: <https://www.elevenlabs.io>

Objective:

Generate AI voice.

Working Steps:

1. Create account
2. Enter script
3. Select voice
4. Generate audio

Sample Prompt:

Create professional narration for college video.

Assignment:

Convert script into AI voice.

II ElevenLabs

Task 22: Create Song using AI

AI Tool: Suno AI

Website: <https://www.suno.com>

Objective:

Create AI music.

Working Steps:

1. Open tool
2. Enter idea
3. Select style
4. Generate song

Sample Prompt:

Create motivational song for college students.

Assignment:

Create original song.

SUNO

Task 23: Create Podcast Script

AI Tool: Claude AI

Website: <https://www.claude.ai>

Objective:

Create podcast content.



Working Steps:

1. Select topic
2. Generate script
3. Edit format

Sample Prompt:

Create podcast script about future of AI.

Assignment:

Create technology podcast script.

Task 24: Create AI Character

AI Tool: Leonardo AI

Website: <https://leonardo.ai>

Objective:

Create digital characters.



Working Steps:

1. Describe character
2. Select style
3. Generate image

Sample Prompt:

Create AI robot mascot for college technology club.

Assignment:

Create AI mascot.

Task 25: Create Animated Story Video

AI Tool: Canva AI

Website: <https://www.canva.com>

Objective:

Create animated videos.



Working Steps:

1. Create video
2. Add story
3. Generate scenes
4. Add music

Sample Prompt:

Create animated story about student learning AI.

Assignment:

Create animated educational video.

Task 26: Write Professional Email

AI Tool: Microsoft Copilot

Website: <https://www.copilot.microsoft.com>

Objective:

Improve professional communication.



Working Steps:

1. Decide purpose
2. Generate email
3. Edit

Sample Prompt:

Write email requesting internship opportunity.

Assignment:

Create official email.

Task 27: Create Marketing Slogan

AI Tool: Jasper AI

Website: <https://www.jasper.ai>

Objective:

Create creative slogans.



Working Steps:

1. Select brand
2. Generate slogans
3. Choose best

Sample Prompt:

Create slogans for AI education startup.

Assignment:

Create slogans for brand.

Task 28: Create Event Invitation Video

AI Tool: Canva

Website: <https://www.canva.com>

Objective:

Create event promotions.



Working Steps:

1. Select video template
2. Add details
3. Add music
4. Export

Sample Prompt:

Create invitation video for college annual fest.

Assignment:

Create event invitation video.

Task 29: Create Career Roadmap

AI Tool: Google Gemini

Website: <https://www.gemini.google.com>

Objective:

Plan career development.



Working Steps:

1. Enter goal
2. Generate roadmap
3. Create timeline

Sample Prompt:

Create one-year roadmap for BCA student becoming software developer.

Assignment:

Create personal career roadmap.

Task 30: Final AI Integrated Project

AI Tool: Google Gemini+ Canva

Website: <https://www.gemini.google.com>

Objective:

Combine AI skills.

Working Steps:

1. Select project
2. Create content
3. Design poster
4. Create video
5. Prepare presentation



Sample Prompt:

Create complete marketing campaign for college technology festival.

Assignment:

Create complete promotional campaign.

AI Tools Competition – Workbook Instructions & Evaluation Process

Project Instructions

All students are required to complete all 30 given AI Tools assignments included in this workbook.

After completing the assignments, students must prepare a PowerPoint Presentation (PPT) containing the output/results of all assignments:-

- ☐ Each assignment output should be presented on one separate slide.
- ☐ The complete PPT should include all 30 assignments.
- ☐ Students must also submit the hard copy of the project workbook/PPT printout for evaluation.

Project Evaluation

- ☐ Each assignment carries 5 marks.
- ☐ Total marks for the complete project: 150 marks.
- ☐ The hard copy of the completed project must be submitted to the respective class teacher for evaluation within the given deadline.

Competition Rounds

Round 1: Class Level Competition

- ☐ Every student will present their PPT containing the output of all 30 assignments in front of their classmates.
- ☐ All participating students will receive a Certificate of Participation.
- ☐ The top 3 performers from each class will be selected for the next round.

Round 2: Department Level Competition

- ☐ Selected top 3 students from each class will participate at the department level.
- ☐ Students will present their AI assignment projects before the evaluation panel.
- ☐ The top 3 students will be awarded trophies.- Selected winners will qualify for the final round.

Round 3: College Level Competition

- ☐ Winners selected from the department level will participate in the college-level final competition.
- ☐ The top 3 students will be awarded attractive cash prizes and recognition for their outstanding performance.

Best wishes to all participants !

Show your creativity, innovation, and practical skills with AI tools.

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