

	<p>Marathwada Mitra Mandal's Institute of Technology, Lohgaon Pune - 47 Department of Artificial Intelligence and Data Science</p>	
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Semester -I A.Y.2025-26 Sub.: - Artificial Intelligence Lab

Class: SE

Assignment 05: Assignment and practice of AI Image Generator

Theory: Introduction to AI Image Generators

1. 1. What are AI Image Generators?

AI Image Generators are models that create images from textual descriptions using deep learning techniques. These tools can generate photorealistic, abstract, or stylized visuals based on the user's prompts.

1.2 Popular AI Image Tools

- DALL·E (by OpenAI)
- Midjourney
- Stable Diffusion
- Leonardo AI
- Canva AI
- Adobe Firefly

1. 3. Applications

- Advertising and Marketing
- Book and Game Illustration
- Content Creation
- Branding and Logo Design
- Education and Storytelling

1.4 Limitations & Ethical Concerns

- Difficulty with text generation inside images
- Inaccuracy in human anatomy
- Potential misuse in misinformation
- Copyright and bias issues

Assignment Tasks

Task 1: Comparative Research

Compare at least 2 AI image generators (e.g., DALL·E vs Midjourney). Evaluate them based on:

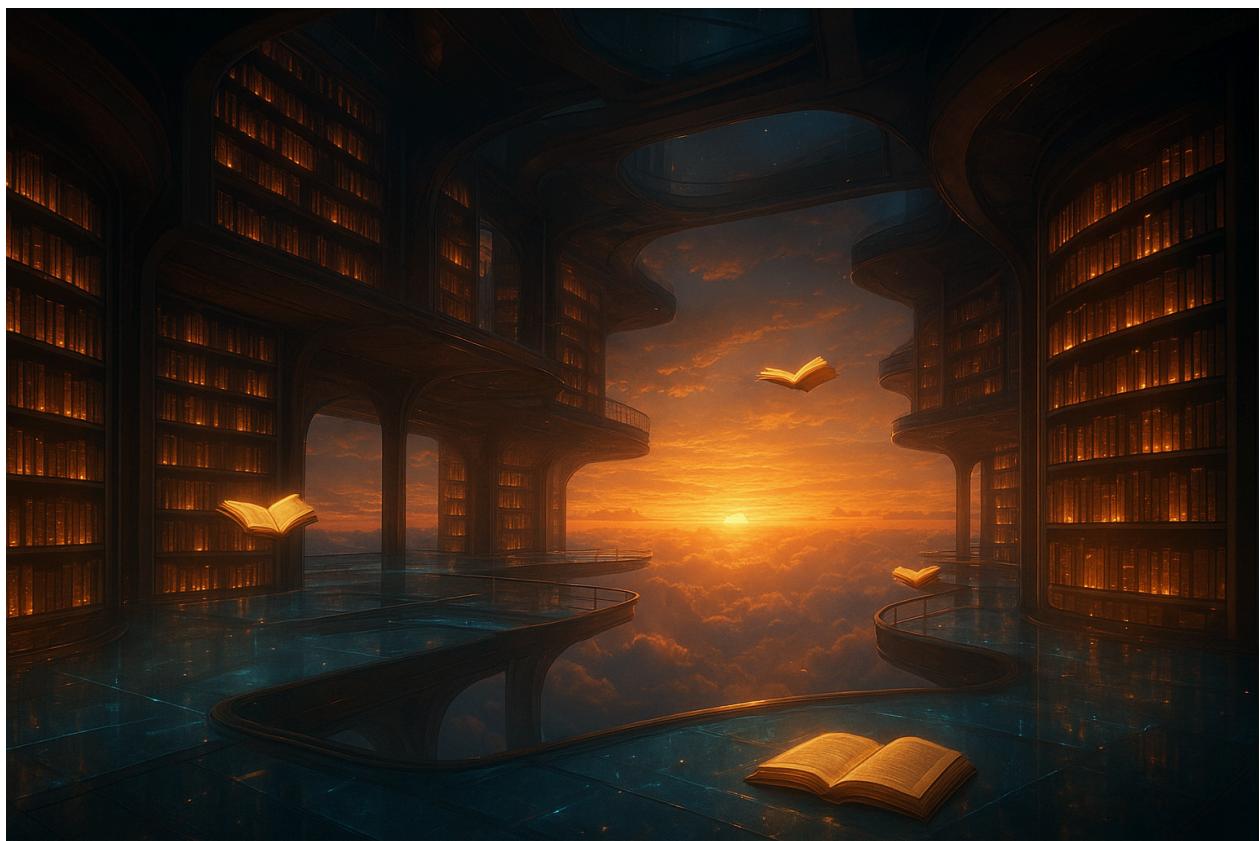
- Image quality
- Prompt accuracy
- Style flexibility
- Usability

- Licensing & terms

Example: 'A steampunk city under moonlight with flying airships and glowing lanterns.'

Feature:-

DALL-E



1.Image quality :- Realistic, clear, detailed images.

2.Prompt accuracy:- Follows instructions closely, great for precise prompts.

3.Style flexibility:-Neutral, supports many styles based on user input.

4.Usability-Easy to use, integrated into ChatGPT and web apps.

5.Licensing & Terms:-Users typically get full rights, good for commercial use.

MIDJOURNEY



1.Image quality:-High-quality but more artistic and dramatic visuals.

2.Prompt accuracy:-Sometimes interprets prompts creatively, not always literal.

3.Style flexibility:-Strong signature style, best for fantasy/artistic work.

4.Usability:-Requires Discord, more learning needed for commands.

5.Licensing & terms:- Commercial rights depend on subscription tier.

Task 2: Visual Design Project

Choose one of the following projects:

- Create a poster for a fictional event or product
- **Design a visual story using 3 image prompts**
- Generate concept art for an educational topic







Practice Activity (If No Direct Access)

If you do not have access to Midjourney or paid AI tools:

- Use DALL·E from ChatGPT or Canva AI tools
- Generate visuals and save screenshots
- Use them to simulate a story, poster, or presentation