

Details Regarding FYP - I

FYP Title	TextPixs (Text to Image)
Group Members	Syeda Anshrah Gillani Umema Mujeeb Maheen Ali
Objectives	<ul style="list-style-type: none">• Enhance rendering of image via text-to-image generation using state-of-the-art techniques.• Improve text fidelity and visual quality in generated images.• Develop a novel hybrid architecture with semantic alignment and text rendering loss.
Problem Statement	Accurate image generation and text rendering within images remains a significant challenge, limiting applications in educational tools, design automation, and digital art. Issues include ambiguity in text prompts, alignment challenges, and lack of robust loss functions for text fidelity.
Purpose/Scope	<ul style="list-style-type: none">• To address limitations in existing models like GANs, transformers, and diffusion models.• Focus on text fidelity improvements to advance applications in content creation, advertising, and human-computer interactions.
Deliverables	<ol style="list-style-type: none">1. A fully functional hybrid architecture for text-to-image generation.2. Extensive experimental results demonstrating improved text fidelity.3. Visualizations (e.g., attention heatmaps, comparative analyses).4. Final research paper for submission to CVPR.