

SCHOOLOFENGINEERING

DEPARTMENT OFAI & ML(IIIrd Year II Semester) Application Development- web applicationwith Natural

LanguageProcessing&IOTExplore(MR22-1CS0264)Date:

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| **Nameofthe Guide** | Prof.R.A.Manikandan | |
| **Project Title** | Text2VisionusingNaturalLanguageProcessing | |
| **Project Title (AnyChange)** | Script-to-Scene:Textual imagery generater using NLP | |
| **SectionName & Batch**  **Number** | OMEGA:Batch-14 | |
| **BatchStudent Details** | **RollNo** | **StudentName** |
| **2211CS020610** | **K.VenkataMahesh** |
| **2211CS020611** | **V.Vyshnavi** |
| **2211CS020612** | **S.Shashidhar** |
| **2211CS020613** | **G.Thanusha** |
| **2211CS020614** | **M.KomalManiKumar** |
| **AbstractWork** | **Script-to-Scene** generation using Stable Diffusion represents a significant advancementinartificialintelligenceandcomputervision,enablingthesynthesis ofhigh-qualityimagesfromtextualdescriptions.Byintegratingnaturallanguage processing with image generation, this approach translates descriptive prompts into visually coherent and contextually accurate images. Stable Diffusion achieves this by leveraging diffusion models, which iteratively refine noisy images into clearer outputs guided by textual input. The process incorporates models like CLIP (Contrastive Language-Image Pretraining) to form semantic embeddings that bridge text and image data. | |

GUIDE ADMENTOR ADCOORDINATOR DEAN