

Abhishek Dangeti

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Professional Experience

2022 – present	<p>AI Researcher <i>Tata Consultancy Services</i></p> <ul style="list-style-type: none">• Style-based Clustering of Artworks<ul style="list-style-type: none">• Developed a clustering application that identifies the different art-styles present in an artwork collection and forms clusters• Developed different style-based neural representations by utilizing pytorch framework to extract different embeddings from models such as large vision language models (LVLM), diffusion models and generational adversarial networks (GAN) and achieved 43% improvement over state-of-the-art style-based clustering approaches• Developed an application using ReactJS to incorporate the subjectivity of style into style-based clustering of artworks by utilizing the tensorflow framework to create a model that incorporates reinforcement learning to guide the model to cluster artworks based on the user's preference of style• Themed Mosaic Creation<ul style="list-style-type: none">• Built an application that takes an input image and re-creates a mosaic version based on a user-provided theme for a large image collection• Utilizes agentic AI to curate a dataset from a larger collection• Accepted as a paper in Computer Vision and Pattern Recognition (CVPR), 2025• Artwork Discovery System<ul style="list-style-type: none">• Developed an application for the MUNCH Museum to allow a user to interactively explore an artwork collection• Built an interactive application using AngularJS that takes a user-input sketch and retrieves relevant artworks by utilizing unsupervised learnt representations extracted by using transformer models to fetch artworks similar to the user-sketch• StyleFrame: A Foundational Framework for Artistic Style Driven Applications<ul style="list-style-type: none">• Designed a software design framework to assist architects, engineers, researchers, etc in developing artistic style-driven AI applications by outlining the different stages present in designing an AI application• Framework takes user specifications as input and provides the state-of-the-art AI applications and the development process of building a style-driven AI application by using an agentic AI created using large language models (LLM)
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Publications

2025	<p>Composite Reflections ✍ <i>Computer Vision and Pattern Recognition (CVPR)</i>, 2025</p>
2024	<p>Style-Frame: A Foundational Framework for Artistic Style Driven AI Applications ✍ <i>International Conference on Computational Creativity (ICCC)</i></p>
2024	<p>Style-based Clustering of Visual Artworks ✍</p>

Skills

Languages

Python, Java, C++

Frameworks

Pytorch, Tensorflow, Diffusers, Keras

Education

2018 – 2022	<p>Bachelor of Technology in Computer Science and Engineering <i>Gandhi Institute of Technology and Management</i></p>
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