

FINAL PROJECT



GENERATING REALISTIC IMAGES



AGENDA

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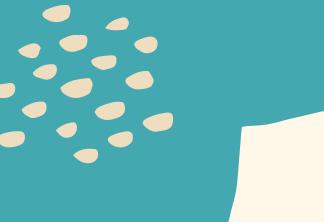
PROBLEM STATEMENT

GENERATING REALISTIC IMAGES
USING GENERATIVE AI



OVERVIEW

USING GENERATIVE AI, REALISTIC PICTURE GENERATION ENTAILS CREATING IMAGES THAT CLOSELY MIMIC REAL-WORLD PHOTOS OR ARTWORK BY UTILIZING DEEP LEARNING ARCHITECTURES, VARIATIONAL AUTOENCODERS (VAES), AND GENERATIVE ADVERSARIAL NETWORKS (GANS). APPLICATIONS FOR THIS TASK CAN BE FOUND IN MANY OTHER DISCIPLINES.



END USERS

END USERS OF GENERATING REALISTIC IMAGES USING GENERATIVE AI ENCOMPASS VARIOUS INDUSTRIES AND APPLICATIONS.

- ENTERTAINMENT AND MEDIA
- ADVERTISING AND MARKETING
- EDUCATION AND RESEARCH
- SIMULATION AND TRAINING
- MEDICAL IMAGING
- E-COMMERCE AND RETAIL



SOLUTION

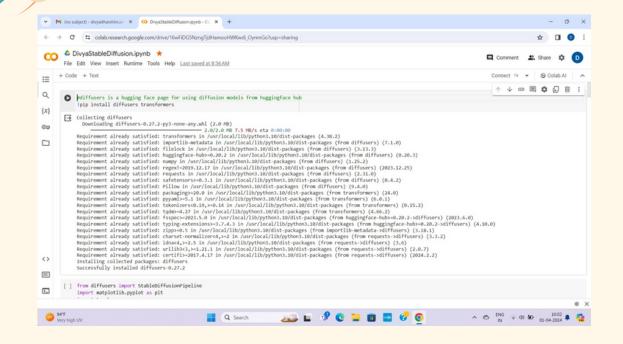
THE DEVELOPMENT OF GENERATIVE AI ALGORITHMS HAS MADE IT POSSIBLE TO PRODUCE REALISTIC VISUALS. IT IS STILL DIFFICULT TO PRODUCE VARIED, HIGH-QUALITY IMAGES THAT CLOSELY MIMIC ACTUAL PHOTOS OR ARTWORK. THE GOAL OF THIS PROJECT IS TO CREATE GENERATIVE AI-BASED REALISTIC PICTURE GENERATION THAT CAN PRODUCE IMAGES WITH HIGH FIDELITY, DIVERSITY, AND COHERENCE IN A VARIETY OF FIELDS.

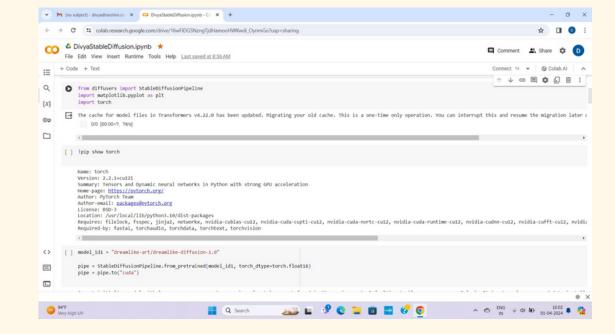


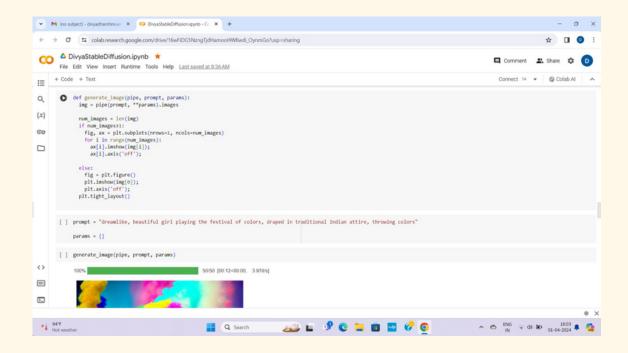
MODELLING

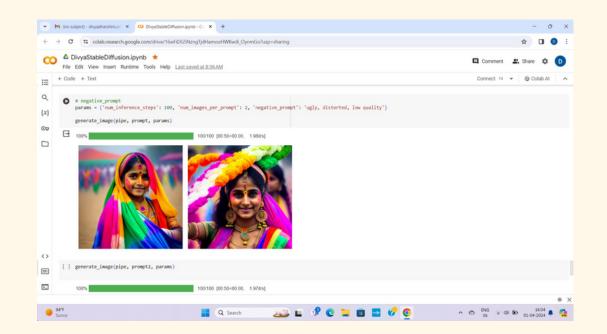
- SELECT A PRE-TRAINED MODEL
- FINE-TUNE THE MODEL
- EVALUATE THE MODEL
- GENERATE IMAGES
- DEPLOYMENT AND APPLICATION
- THE IMAGE IS GENERATED

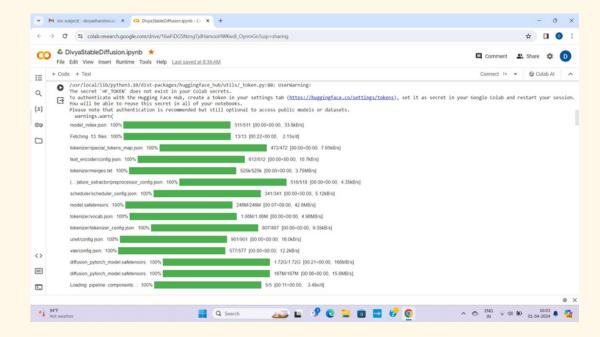
DEPLOYMENT

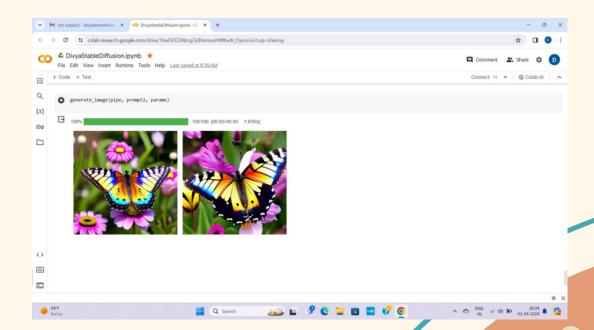












RESULTS

VARIABLES LIKE THE QUALITY OF THE TRAINED MODEL, THE INTRICACY OF THE IMAGE DATASET, AND THE PARTICULAR PARAMETERS APPLIED DURING GENERATION CAN AFFECT THE OUTCOMES OF GENERATIVE AI'S CREATION OF REALISTIC IMAGES. GENERATIVE AI CAN PRODUCE STRIKINGLY LIFELIKE VISUALS, OPENING UP A WORLD OF POSSIBILITIES FOR ARTISTIC EXPRESSION, PRACTICAL APPLICATIONS ACROSS MULTIPLE INDUSTRIES, AND CREATIVE INQUIRY.

