

Kalakriti.ai

AI generated Design

By - Group 14

S20180010064

S20180010141

S20180010158

S20180010090

S20180010180

Application Idea

- Generating T-Shirt designs using neural networks.
- Each time updating the website page, a new unique design will be created. We plan to use this design to print on T-Shirts and a sorted apparel.
- Making use of latest AI/ML techniques to synthesize designs.
- Using existing online business to get our designs printed and shipped to the consumers.

Style Gan



An example of Style GAN output



Style GAN design - T-Shirt

Services to consume

- Printing services from online business.
- Secure Authentication System
- Payment Integration
- AWS hosting services

Services to expose

- B2B - Providing ease of access of services of T-Shirt Printing business for their users.
- B2C - Services for designing unique art work for getting printed on their apparel.

Tech Stack

Frontend

- HTML
- CSS
- Bootstrap
- Javascript

Backend

- Django
- Django Rest

ML

- PyTorch
- GANs

CI/CD

- Tox
- PyTest
- PyPI/Conda

Documentation

- Swagger API
- Static site generators
- Hosting/RTD

Implementation Plan

Testing and documentation go alongside -

- Phase 1 - By 3 weeks, we plan to complete authentication, random design generation, corresponding frontend/backend.
- Phase 2 - Next 3 weeks, Building and validating design part, and exposing designer APIs.
- Final - Expose all APIs, complete packaging and deployment.

Any questions
