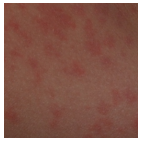
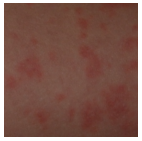
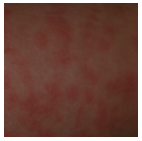
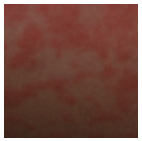
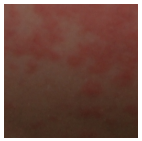
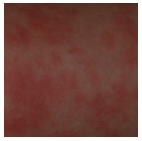
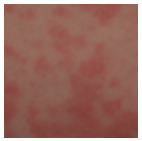
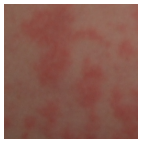
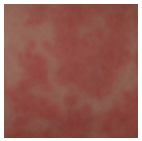
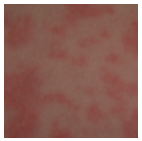
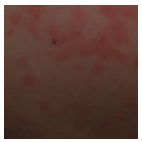
Dataset View - SkinDisease

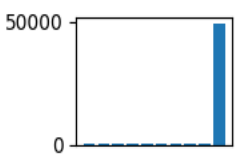
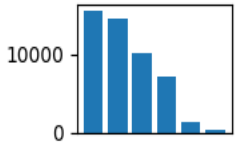
Dataset Head

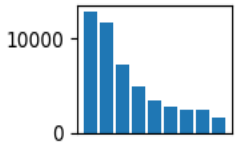
URIs	skin_color	disease
	tan	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	tan	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema

	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema

Features View

Stats

feature	missing_values	unique	top	freq	values	distribution	sensitive	target
URIs	0	49268	https://dvcs.apice.unibo.it/aequitas/cropped-skin-disease-dataset/-/raw/master/esantema-iatrogeno-farmaco-indotta/persona22/crops/0006.png?ref_type=he...	1	https://dvcs.apice.unibo.it/aequitas/cropped-skin-disease-dataset/-/raw/master/esantema-iatrogeno-farmaco-indotta/persona22/crops/0001.png?ref_type=he...		False	False
skin_color	0	6	intermediate	15654	brown, dark, intermediate, light, tan, very light		True	False

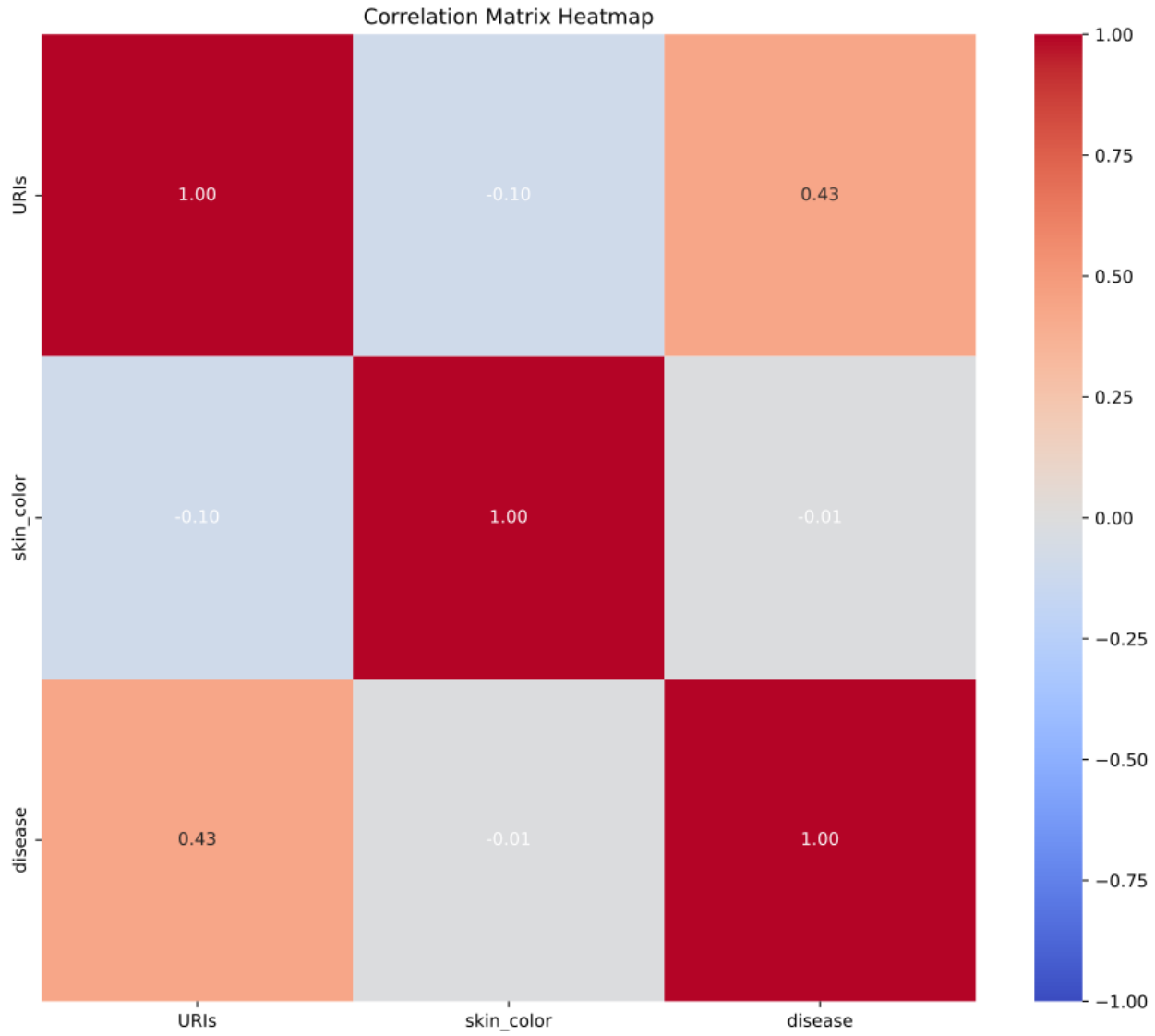
feature	missing_values	unique	top	freq	values	distribution	sensitive	target
disease	0	9	Urticaria	12916	Chickenpox, Iatrogenic Drug Induced Exanthema, Maculopapular Exanthema, Morbilliform Exanthema, Pediculosis, Polymorphous Exanthema, Scabies, Urticari...		False	True

Features

Field Name	drop	sensitive	target
URIs	✘	✘	✘
skin_color	✘	✔	✘
disease	✘	✘	✔

Proxies

Correlation Matrix



Suggested Proxies

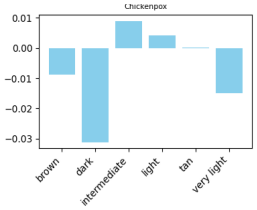
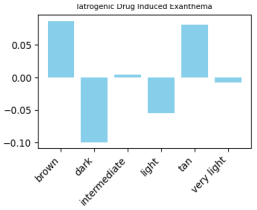
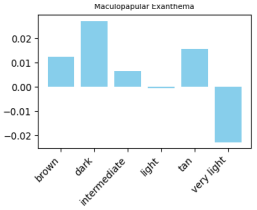
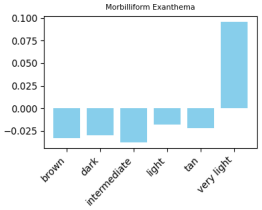
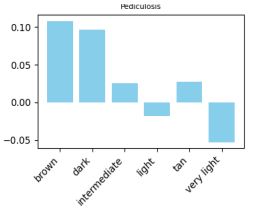
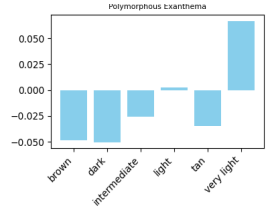
Skin_color

	URIs
correlation	-9.68%
suggested_proxy	✗

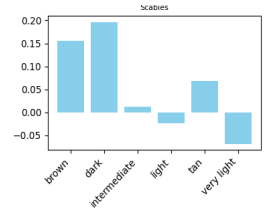
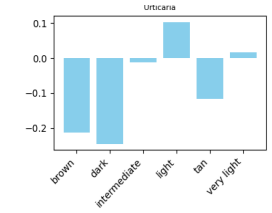
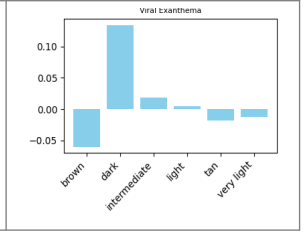
Detection

Selected Metrics

StatisticalParityDifference

	Chickenpox	Iatrogenic Drug Induced Exanthema	Maculopapular Exanthema	Morbilliform Exanthema	Pediculosis	Polymorphous Exanthema
skin_color						

StatisticalParityDifference

	Scabies	Urticaria	Viral Exanthema
skin_color			

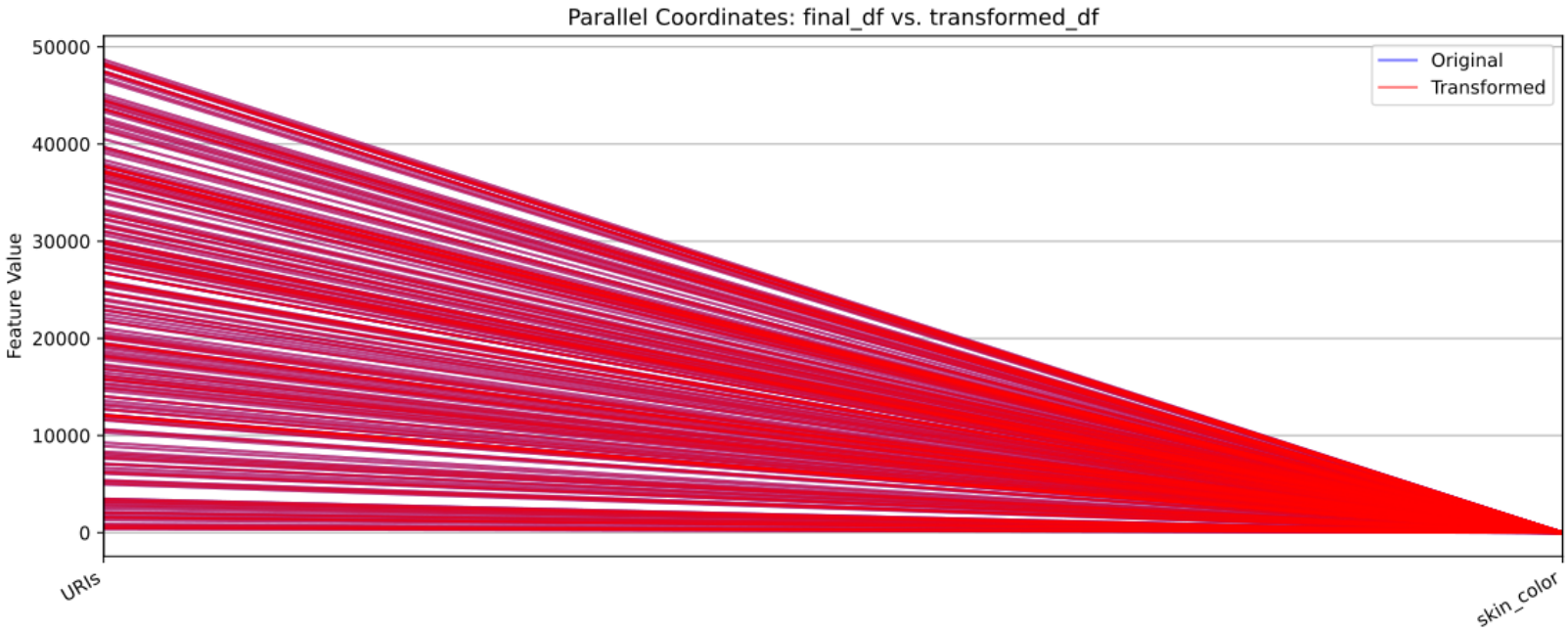
Data Mitigation

Preprocessing

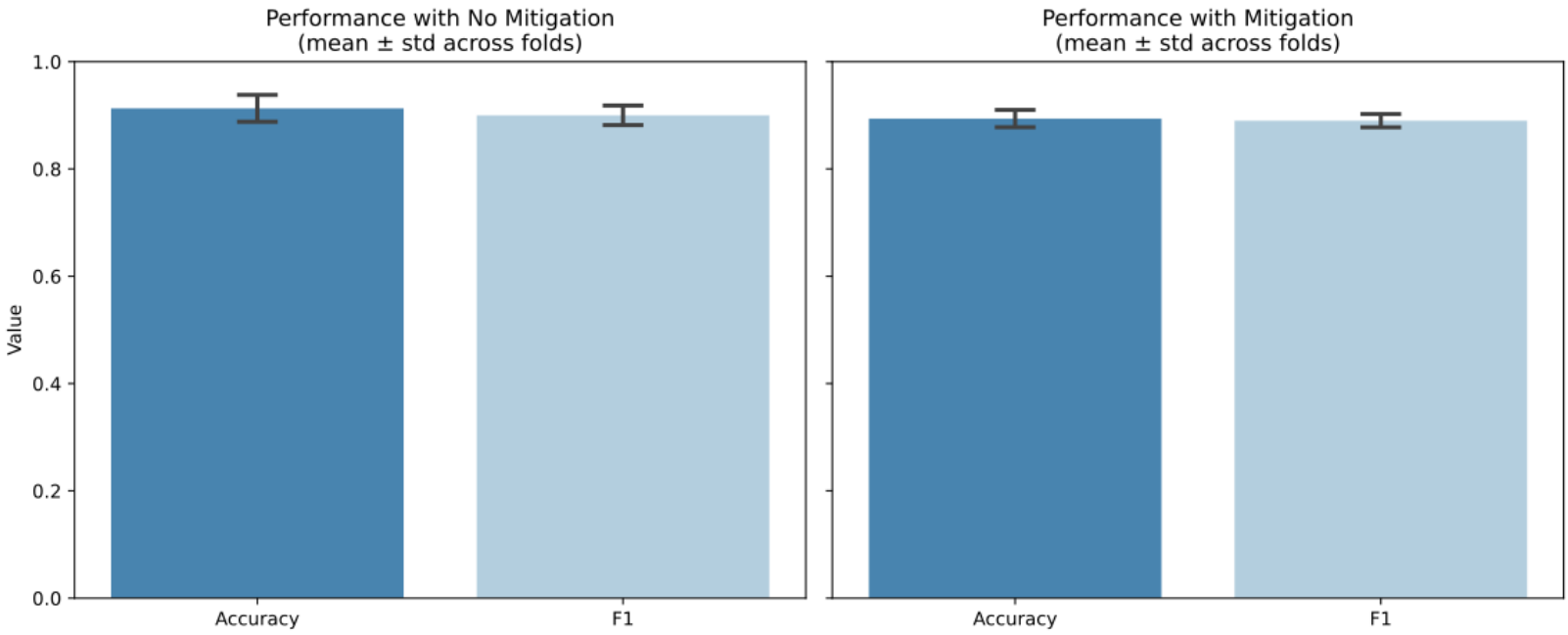
$algorithm	augmentation_criterion	batch_size	epochs
StableDiffusionBasedDataAugmentation	balanced	256	100

Data Mitigation Results

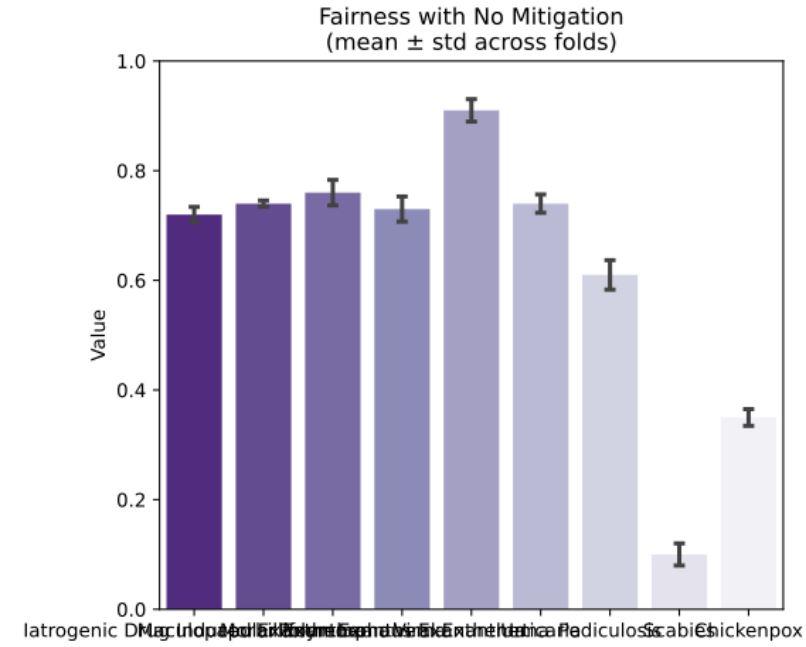
Preprocessing Plot

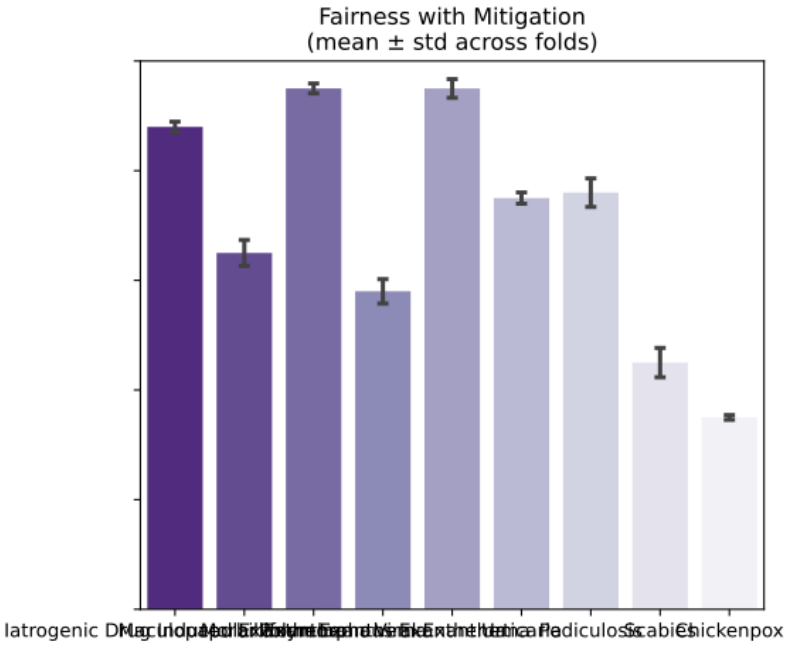


Performance Plot

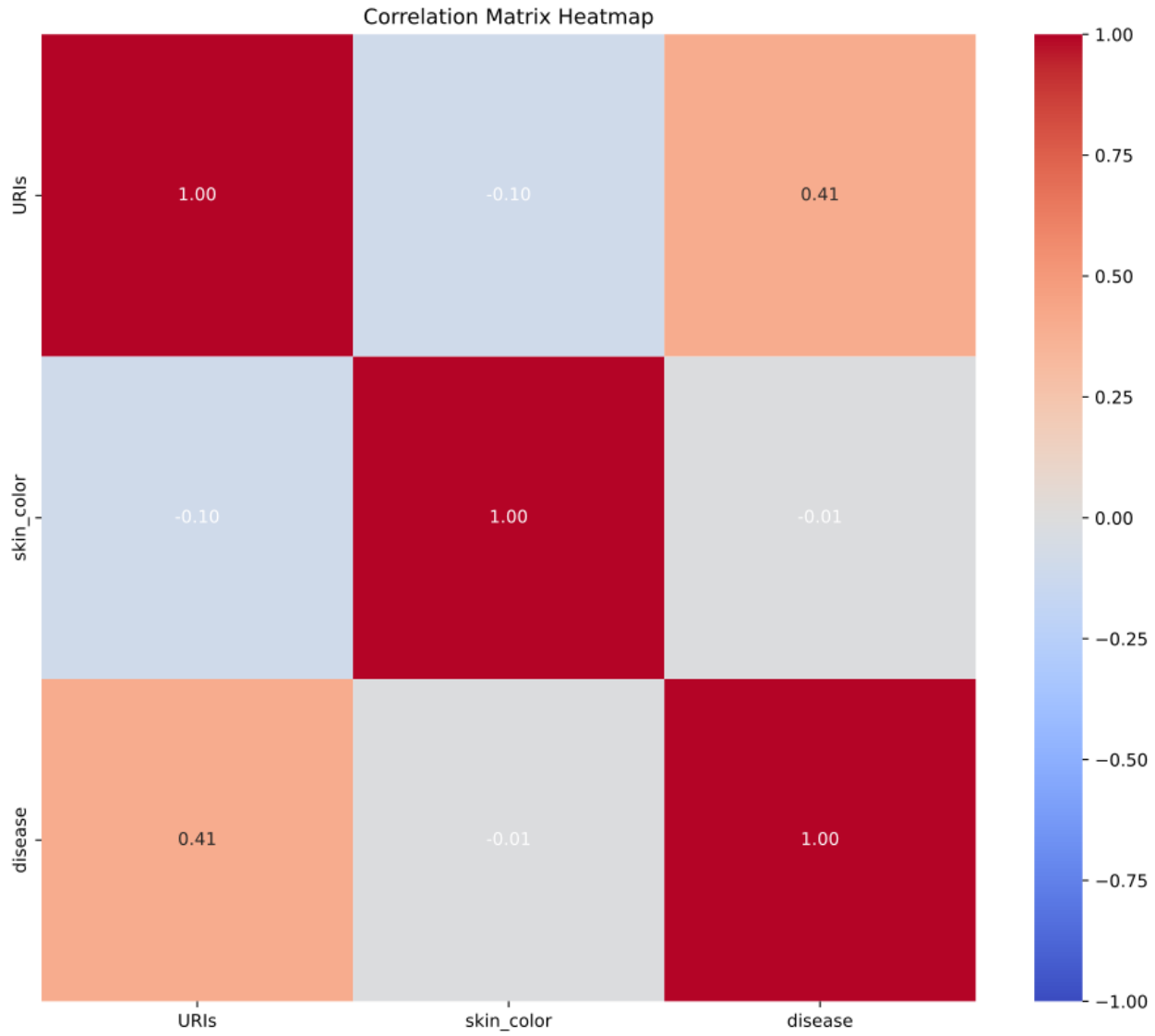


Fairness Plot

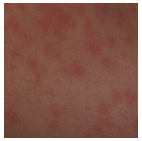
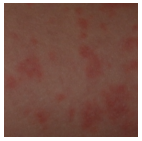
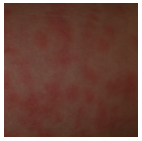
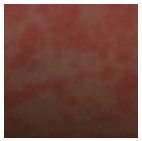
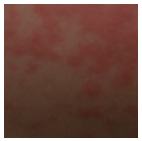
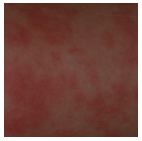


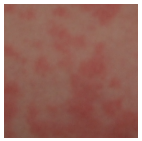
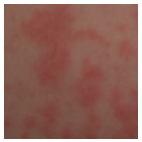
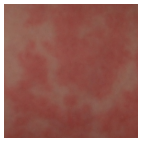
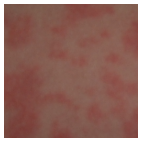
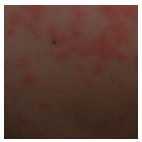


Correlation Matrix



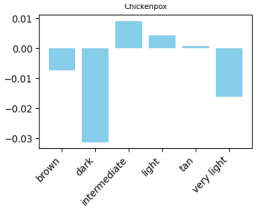
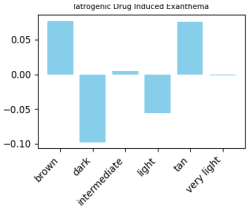
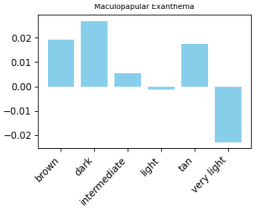
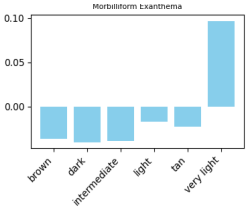
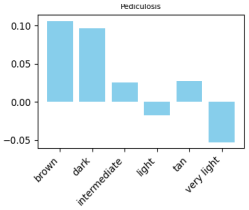
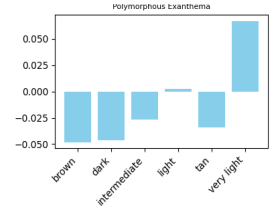
Dataset Head

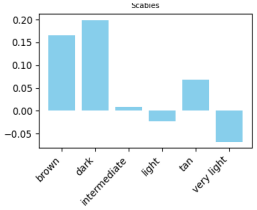
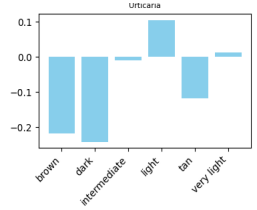
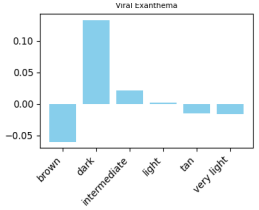
URIs	skin_color	disease
	tan	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	tan	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema

	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema
	intermediate	Iatrogenic Drug Induced Exanthema
	brown	Iatrogenic Drug Induced Exanthema

Selected Metrics

StatisticalParityDifference

	Chickenpox	Iatrogenic Drug Induced Exanthema	Maculopapular Exanthema	Morbilliform Exanthema	Pediculosis	Polymorphous Exanthema
skin_color						

StatisticalParityDifference

	Scabies	Urticaria	Viral Exanthema
skin_color