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Digital Wardrobe Experience – Virtual Try on Clothing

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ARTICLEINFO	ABSTRACT		
Article History:	The image-based virtual try-on project is all about using computer vision and augmented reality. We're working on clever computer programs to spot and follow your body and the clothes you want to try on in pictures. This means figuring out how you're standing, separating you from the background, and making the clothes look real on you. It's like making a virtual fitting room with some high-tech magic. Image-based virtual try-on is a cool tech that lets you try on clothes in pictures. It uses smart computer stuff to figure out your body shape from your photo. Then, it magically puts the clothes on you in the pic, making sure they look right with the right fabric, texture, and fit. It's like a virtual dressing room on your screen. This tech wants to give you a super-real and fun way to try on clothes without actually putting them on. Imagine seeing how different outfits would look on you, just by using your computer or phone.		
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	Keywords : Shopping, Virtual Try-on , Image Based ,Clothing ,Fitting Room, Algorithms, User , Virtual reality.		

I. INTRODUCTION

ImagebasedvirtualTry-onclothingisaconceptofprovidingcustomeranexperienceofvirtually trying multiple clothes of his or her choice without making him travel to the shop ormarket. This concept of digital wardrobe can make on lines hopping for customermore reliable and trustable in this world where it is the state of the statsnotpossible for customertotrave levery time to the shop top urchase clothing items. This system willbe а digital wardrobe for the customer where they can try clothing of their choice by just uploading their image into the system. It could make online shopping way better because you won't need to visit real fitting rooms, and you'll be happier with what you buy. It's like a fashion revolution online.

There

arealotofalgorithmshavebeendevelopedforaccuratelycalculatingthesizeandtheshapeofthebodyandsuggestingthep erfectclothingitemtotheuser. Researchersarealsoworking on improving the privacy of the data mostly in the form of images provided by users. This proposed system will help users to find out their favourite clothing items and

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will alsoprovideuserswiththeonlinevirtualtry-onexperience. Inthissystemuserwillprovidehisimagetotheapplicationandthenwillbeabletoselecttheclothingitemthathewantstot ry. systemwillputthatclothingontheimage providedbytheuser.

II. LITERATURE SURVEY

Sr.	Paper	Author	Year of	Problem solved in	Technique used to solve	What will be
No.	title	Name	Publicat	this paper : Existing	problem : Existing	future work :
			ion	Problem Statement	Problem Solution	Future Scope
1.	Dress	Davide	2022	Todevelopasystem	Computer vision,	Technological
	Code:Hi	Morelli1,M		thatenablesusersto	machinelearning,AR	advancements,
	gh-	atteoFincat		virtuallytryoncloth	development, user interfac	user
	Resoluti	o1,		ingitems.	e design, and e-	expectations.
	-	Marcella			commerceintegration.	
	onMulti	Cornia1,				
	-	Federico				
	Categor	Landi1,*,				
	yVirtual	Fabio				
	Try-On	Cesari				
		2,andRita				
		Cucchiara1				
2.	Virtual	PrajaktaJog	2022	AR approach for	Revolutionize the online	Reshape the
	Cloth	lekar,Vina		virtual cloth try-on	fashion industry by	fashion
	Try-On	yaGohokar		that overcomes	providing a realistic,	industry, online
	Using			these challenges.	interactive, and user-	shopping, and
	Augmen				friendly try-	user
	ted				onexperience.	experiences in
	Reality-					profound ways.
	Marker					
	Based					
	Approac					
	h					
3.	Image-	Prof.Suvar	2022	To develop an	Comprehensive	Enhance the
	BasedVi	naBahir1,		image-	approachtoaddressthecha	shoppingexperi
	rtual	ShivaniShe		basedvirtualtry-	llenges.	ence,reducewas
	Try	dage2,		onsolutionthatprov		te.
	0	SakshiTale		idesarealistic		
	nClothe	kar3,		experience		
	S	PoojaMoka		forusers.		
		she4				
4.	ANovel	T S	2022	To develop a	Virtual visualization	Redefine



					Γ	[]
	Approac	Prabhakar,		approachfor virtual	ofclothfittingaimstorevol	howconsumerss
	h	NM		cloth	utionize the	hopforclothinga
	0	Shreyas,Ak		fittingvisualization	onlinefashionindustryby	ndfashionitems.
	f	shayRaghu		thatovercomesexist	providingarealistic,perso	
	Virtual	,Chethan		inglimitations	nalized, and integrated	
	Visualiz	В		andenhancestheonl	virtual fittingexperience	
	ation	R,ImpanaG		ineshoppingexperie	that	
	0	Shetty		nce.	benefitsbothconsumersa	
	fClothFi				ndretailers.	
	tting					
5.	DressCo	DavideMor	2022	Providingusersarea	Developing	VirtualTry-
	de:High	elli1,		listicanddetailedvis	acomprehensivesystemth	Onispromising
	-	MatteoFin		ualizationofhowdif	atprovidesuserswithahig	and likely
	Resoluti	cato1,		ferent clothing	h-resolution,multi-	torevolutionize
	- on	MarcellaC		itemsfitand lookon	categoryvirtualtry-	thefashion
	Multi-	ornia1,		them.	onexperience.	industry.
	Categor	FedericoLa				
	yVirtual	ndi1,				
	Try-On	FabioCesar				
		i2, Rita				
		Cucchiara				
6.	A Flow-	AOWANG	2022	Photo-	Revolutionize the	Redefineonlinef
	Based	,XIAOLIN		realisticvirtualtry-	onlinefashionindustryby	ashionshopping
	Generat	GGU,		onexperiencesforcl	offeringahighlyconvincin	,providingusers
	iveNetw	(Member,I		othingitems.	g,interactivevirtualtry-	with
	ork	EEE),			onexperience.	highlypersonali
	forPhot	ANDJUNK				zedandimmersi
	0-	AIZHU				ve experiences.
	Realistic					
	Virtual					
	Try-On					
7.	Multipl	THAITHA	2021	Tovisualizehowclot	Computervision,3Dmode	Fashion
	ePoseVi	NHTUAN1		hing fits and	ling,physicssimulations,	industry,makin
	rtualTry	,		appearsfrom	augmentedreality,userint	g online
	-On	MATIURR		differentangles.	erfacedesign,ande-	shopping
	Basedon	AHMANM			commerceintegration.	moresustainabl
	3D	INAR1,				e.
	Clothin	HEEJUNE				
	gRecons	AHN1,				
	tru-	JOHNWAI				
1	ction	NWRIGH				



		Т				
8.	Toward Realistic Virtual Try- onThro ugh Landma rk - GuidedS hape Matchin	GuoqiangL iu1, DanSong2, RuofengTo ng1†, MinTang1	2021	Existing methods oftenstruggletoacc uratelysimulateho wagarment will drape andfitonanindividu al'sbody,leadingtop otentialcustomerdi ssatisfaction.	Computer visiontechniques, 3D modeling,physics-based simulations,anduserfeedb ackintegrationtoachievea highly realistic virtual try- onexperiencethroughlan dmark-guidedshape matching.	Revolutionize thefashionindus tryand onlineshopping experiences
9.	g Image- BasedVi rtualClo thing	HarshadaK udtarkar1, DineshFara d2, RuchiraZo pe3andPro f. Dhanashre eHadsul4	2021	To develop an image- basedvirtualclothin gsystem that overcomesthese- challenges,providin g users with arealistic and interactivetry- onexperience.	Revolutionizetheonlinefa shion industry by offeringaconvincing,inter active,and user- friendlyvirtual try- onexperiencethataddress esthechallengesofonlinec lothing shopping	Transform onlinefashion shopping,offeri nghighlyimmer sive, personalized, andintegrated experiences.
10.	VITON- GT:An Image- basedVi rtualTry -On Model withGe ometric Transfor mations	MatteoFin cat1, FedericoLa ndi1, MarcellaC ornia1	2021	Removing thelimitationsofexi stingimage- basedvirtualtry- onmodels.	Addresstheproblemofach ievingrealisticvirtualtry- onusinggeometrictransfo rmations.	Redefine the wayconsumerss hopforclothinga ndfashionitems.

III.LIMITATIONS OF EXISTING SYSTEM



- Despitethefactthatsmartphonesarebecomingmorepowerful,theyarestillnotverycompatibleintermsofproces singspeedwhen comparedtoaPCenvironment.
- Becauseaugmentedrealityisstillarelativelynewtechnologydevelopment, resources and tools are limited.
- Not Super Realistic: Virtual try-on systems can't make clothes look exactly like theydo in real life. They might not fit your body perfectly, and the colours and textures might notbe quiteright.
- ColoursandTexturesCanBeOff:Sometimes,thecoloursandmaterialsoftheclothesinthevirtualtry-onmightnot match what you'd seeinreal life.
- Hardware and Software Requirements: Users often need high-quality hardware, suchasacomputerwithagoodgraphicscard, and astable internet connection to use image-based virtual try-onsystems. This can limit accessibility for some potential customers.
- Integration Challenges: Implementing image-based virtual try-on solutions on e-commerce websites or mobile apps can be technically challenging. Integration mayrequiresignificant development effort and resources.

IV.CONCLUSION

The future of image-based virtual try-on is promising, offering exciting possibilities for the fashion industry and consumers alike. With ongoing innovation and user-centric esign, these systems have the potential to redefine the way we explore, choose, and experience fashion in the digital age.

In the future, we can expect these virtual try-on systems to get even better and makeonline shopping more exciting. They have the potential to make our digital fashionadventuresmore personaland enjoyable.

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