FASHION DATASET GATHERING, FILTERING AND STORING IN A DATABASE

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Aim of the bigger project: Fashion Trend Forecasting by using Machine Learning

• Trend -

The behavior of large group of people, that is accepted and followed extensively for a period of time.

- Fashion Trends -
- The direction of movement of public acceptance of color, texture, and silhouette in fashion.
- Newest styles and silhouettes
- Important colors for upcoming seasons
- Newest developments in the fiber and fabric markets

Fashion Forecasting

- "Trends are profits waiting to happen"
- For mainstream brands, timing is essential
- Right product,Right place, Right time

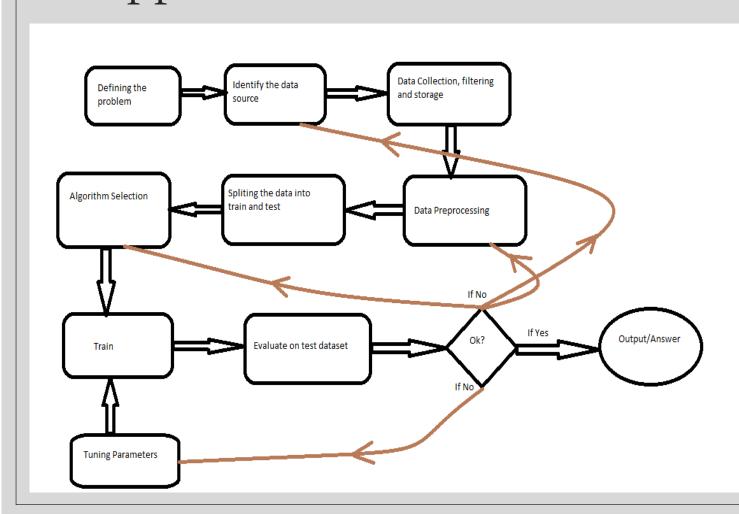
KEY ITEMS | DRESSES • SS 18





WOMENSWEAR | DEVELOPMENT • SS 18

Traditional vs Our Intelligent Trend Forecasting Approach



- Social Networking and photo sharing websites are playing a major role in todays customer demands
- AI based approach to recognize and detect fashion trends from social networks and websites will be more accurate than traditional forecasting methods which mainly rely on the predictions of experienced experts.
- Significantly lesser time

TOP

WHITE







STREETWEAR

SWEATSHIRT

OFF-WHITE





REGULAR

CHANEL TIMELESS

MINI

PINK

BLACK

DRESS

BROWN

BLACK

CHIC

BELT

OUTDOOR

BAG

CHLOÉ TESS

SADDLE BAG











Features and Labels

Features -

- Category
- o Design specification
- o Location/Geography
- Gender
- Brand Name
- Price
- Color

<u>Label for Supervised</u> <u>Learning –</u>

o Popularity rate

Relevant data source

<u>Instagram</u> –

- No of photos shared to date 50 billion +
- The number of Instagram Likes per day:4.2 billion

Twitter –

Number of followers in Fashion industry – 100 million

Popular Fashion Retailer websites-

 Chanel, Burberry, H&M, Dior, Hugo Boss, etc. What data are we collecting from the social networks and websites?

Images of the Fashion items – clothes, shoes,
 accessories, etc.

 Text – number of likes, comments, number of followers, location, name of brands, amount of price, product category, etc.

Influencer Identification from Social Networks

• Who are Fashion Influencers?

A fashion influencer is a personality that has a large number of followers on social media, creates mainly fashion content and has the power to influence the opinion and purchase behavior of others with their recommendations.

o How do we identify influencers from social networks?

Brands endorse them to attend fashion shows, parties, designer dinners and exclusive trips and to wear their clothes on social media.

In 2017, Forbes named Chiara Ferragni, Danielle Bernstein, Julia Engel, Gabi Gregg, Jenn Im, Susanna Lau, Nicolette Mason, Simone Zippi Stardust, Aimee Song and Bryan Yambao, also known as Bryanboy, as the top influencers in the fashion category Data Scraping by
API or Scrapy
framework

Export and
Visualization in
Gephi

Influencer
Identification

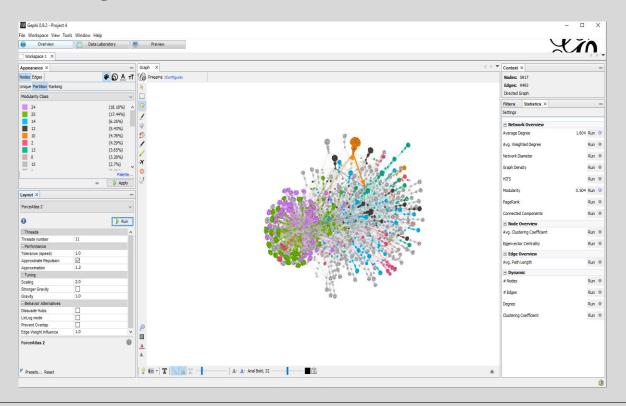
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Data Scraping using 'Scrapy'

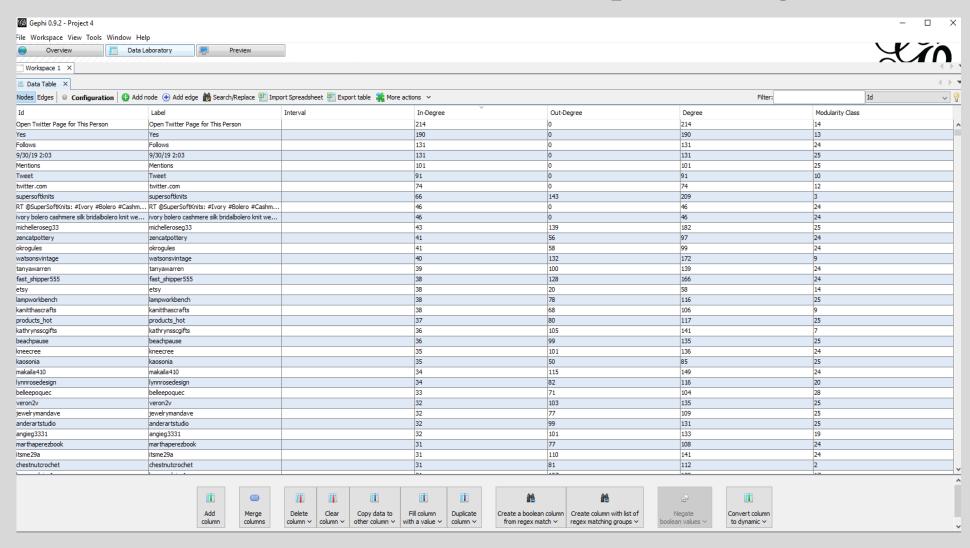
- Scrapy is a free and opensource web-crawling framework written in Python.
- Scrapy has built-in support for extracting data from HTML sources using XPath expression and CSS expression.
- It can be Easily Extensible.
- It can able to extract the websites with 20 times faster than other frameworks like BeautifulSoup or Selenium.
- The scraped texts were saved in .csv format.

Influencer Identification with 'Gephi'

- Gephi is an open-source network analysis and visualization software package written in Java on the NetBeans platform.
- After exporting the data to Gephi from our CSV file, we used 'Force Atlas 2' to visualize the network and then from the 'In-degree' chart , we can determine about the influence of the profiles.



Influencer determination from with 'Gephi' In-degree chart



Data Filtering by using 'Pandas'

Data before being filtered

Removal of 'NaN' and lines

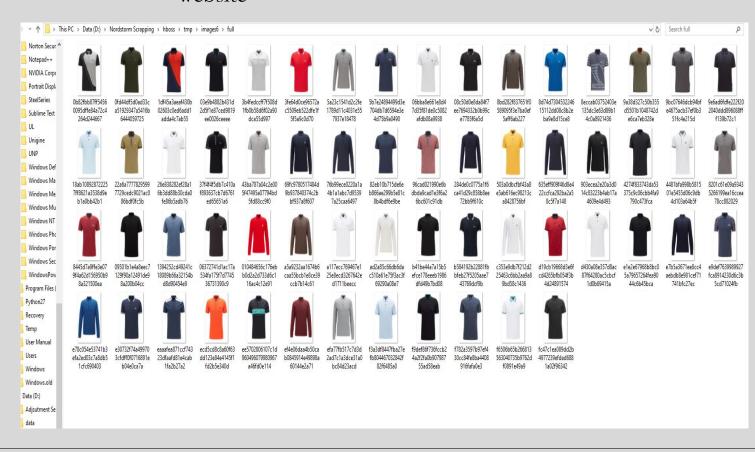
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-		URL	Product Name	Price
	0	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Chelsea Boots aus Leder	350,00€
	1	https://images.hugoboss.com/is/image/boss/hbeu	NaN	350,00€
]:	2	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Chelsea Boots aus Leder	199,00€
	3	https://images.hugoboss.com/is/image/boss/hbeu	NaN	350,00€
	4	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers im Laufschuh-Stil mit Strickso	150,00€
	5	https://images.hugoboss.com/is/image/boss/hbeu	NaN	150,00€
	6	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Chelsea Boots aus Leder	350,00€
	7	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	8	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers mit feuchtigkeitsableitendem I	99,00€
	9	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	10	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers mit feuchtigkeitsableitendem I	199,00€
	11	https://images.hugoboss.com/is/image/boss/hbeu	NaN	350,00€
	12	https://images.hugoboss.com/is/image/boss/hbeu	Chelsea Boots aus poliertem Leder mit gelasert	299,00€
	13	https://images.hugoboss.com/is/image/boss/hbeu	NaN	550,00€
	14	https://images.hugoboss.com/is/image/boss/hbeu	Sneakers aus Velours- und Nappaleder	230,00€
	15	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	16	https://images.hugoboss.com/is/image/boss/hbeu	Hausschuhe aus Veloursleder mit Gummisohlen	350,00€
	17	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
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	19	https://images.hugoboss.com/is/image/boss/hbeu	NaN	150,00€
	20	https://images.hugoboss.com/is/image/boss/hbeu	Sneakers aus Kunstleder im Retro-Look mit tran	550,00€
	21	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	22	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Derbys aus geprägtem Lac	550,00€
	23	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	24	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Lowtop Sneakers mit Meis	170,00€
	25	https://images.hugoboss.com/is/image/boss/hbeu	NaN	99,00€
	26	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Derbys aus gewalktem Led	199,00€
	27	https://images.hugoboss.com/is/image/boss/hbeu	NaN	199,00€
	28	https://images.hugoboss.com/is/image/boss/hbeu	lem:lemma	195,00€
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	30	https://images.hugoboss.com/is/image/boss/hbeu	Leder-Sneakers mit Einsätzen aus grobem Mesh	195,00€

:	URL	Product Name	Price
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0		In Italien gefertigte Chelsea Boots aus Leder	350,00 €
2	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Chelsea Boots aus Leder	199,00 €
4	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers im Laufschuh-Stil mit Strickso	150,00
6	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Chelsea Boots aus Leder	350,00
8	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers mit feuchtigkeitsableitendem I	99,00
10	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers mit feuchtigkeitsableitendem I	199,00
12	https://images.hugoboss.com/is/image/boss/hbeu	Chelsea Boots aus poliertem Leder mit gelasert	299,00
14	https://images.hugoboss.com/is/image/boss/hbeu	Sneakers aus Velours- und Nappaleder	230,00
16	https://images.hugoboss.com/is/image/boss/hbeu	Hausschuhe aus Veloursleder mit Gummisohlen	350,00
18	https://images.hugoboss.com/is/image/boss/hbeu	Sneakers aus Velours- und Nappaleder	250,00
20	https://images.hugoboss.com/is/image/boss/hbeu	Sneakers aus Kunstleder im Retro-Look mit tran	550,00
22	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Derbys aus geprägtem Lac	550,00
24	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Lowtop Sneakers mit Meis	170,00
26	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Derbys aus gewalktem Led	199,00
28	https://images.hugoboss.com/is/image/boss/hbeu	Ledersneakers im Laufschuh-Stil mit Monogramm	195,00
30	https://images.hugoboss.com/is/image/boss/hbeu	Leder-Sneakers mit Einsätzen aus grobem Mesh	195,00
32	https://images.hugoboss.com/is/image/boss/hbeu	In Italien gefertigte Derbys aus pflanzlich ge	299,00
34	https://images.hugoboss.com/is/image/boss/hbeu	Leder-Sneakers mit Einsätzen aus grobem Mesh	170,00
36	https://images.hugoboss.com/is/image/boss/hbeu	Laufschuhe aus poliertem Leder mit cognacfarbe	199,00
38	https://images.hugoboss.com/is/image/boss/hbeu	Hybrid-Sneakers mit feuchtigkeitsableitendem I	299,00

In [9]: data= data.dropna()

How the collected data now looks like

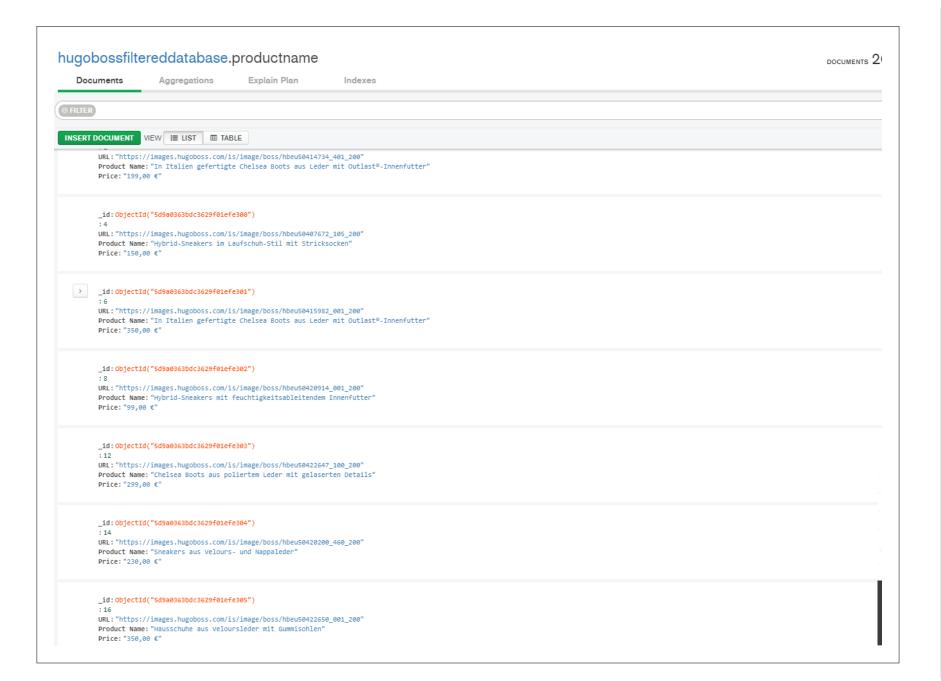
 Scraped T-shirt Images from Hugo Boss website



How the collected data now looks like

• Twitter scraped data from an influencer with username 'supersoftknits'

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31	1564335623000	2019-07-28	19:40:2	3 W. Europe Dayl	ic 2593453063	supersoftknits	Soft Knits	#Ivory #Bolero #	['etsy']	['https://etsy.me/	['https://pbs.twim	2		8 ['#ivory', '#boler	https://twitter.	com/SuperSoftKnit	s/: [{'user id': '2	2593453063', 'u
32	1564050273000	2019-07-25	12:24:3	3 W. Europe Dayl	ic 2593453063	supersoftknits	Soft Knits	#Ivory #bolero #	\ ['etsy']	['https://etsy.me/	['https://pbs.twim	14	ı	9 ['#ivory', '#boler	https://twitter.	om/SuperSoftKnit	s/: [{'user_id': '2	2593453063', 'u
33	1564044649000	2019-07-25	10:50:4	9 W. Europe Dayl	ic 2593453063	supersoftknits	Soft Knits	#Ivory #Bolero #		['https://etsy.me/	['https://pbs.twim	1 8	3	7 ['#ivory', '#boler	https://twitter.	om/SuperSoftKnit	s/: [{'user id': '2	2593453063', 'u
34	1563969500000	2019-07-24	13:58:2	0 W. Europe Dayl	ic 2593453063	supersoftknits	Soft Knits	#Bridal #bolero			['https://pbs.twim		3	6 ['#bridal', '#bole	-	•		
35	1563608609000	2019-07-20		9 W. Europe Dayl		supersoftknits	Soft Knits	#Ivory #Bolero #	. ,,		['https://pbs.twim		5	10 ['#ivory', '#boler				
36	1563459506000	2019-07-18		6 W. Europe Dayl	1	supersoftknits	Soft Knits	#Ivory #Bolero #	. ,,		['https://pbs.twim			10 ['#ivory', '#boler		•		



Data Storing in MongoDB

- It's a query language that is rich and supports text search, aggregation features, and CRUD operations.
- It requires lesser input and output operations due to embedded data models, unlike relational databases. MongoDB indexes also support faster queries.
- It employs multiple storage engines, thereby ensuring the right engine is used for the right workload, which in turn enhances performance.

Statistics of dataset collected

INSTAGRAM	TWITTER	HUGOBOSS				
Total Images: 10K	Tweets: 15k	Clothing items: 3k(Images, Image URLs, product name				
Total Comments: 65K	Community: Cashmere	and product price)				
Community : Cashmere		Clothing type: 80				
		Online Shop				

Chart Analysis of Hugo Boss collected data

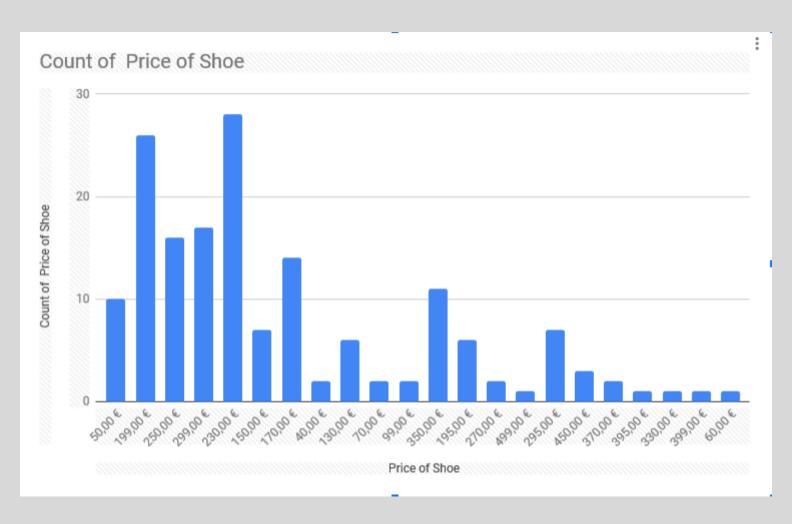
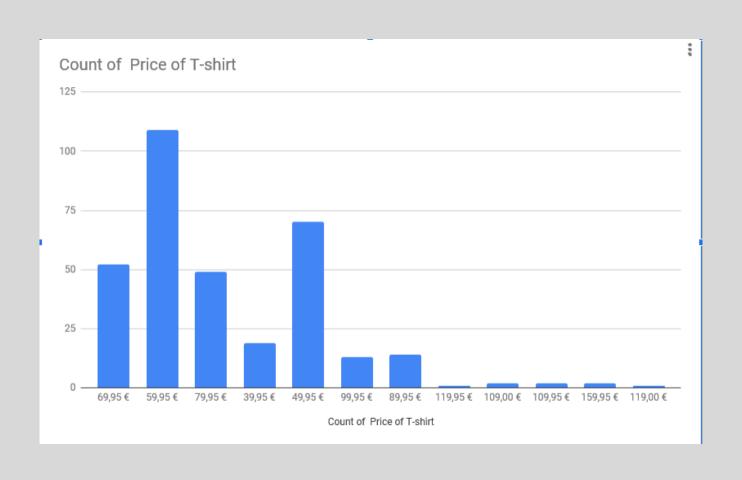


Chart Analysis of Hugo Boss collected data



Next Steps

Implementation of machine learning techniques to forecast fashion trends will take place.

