

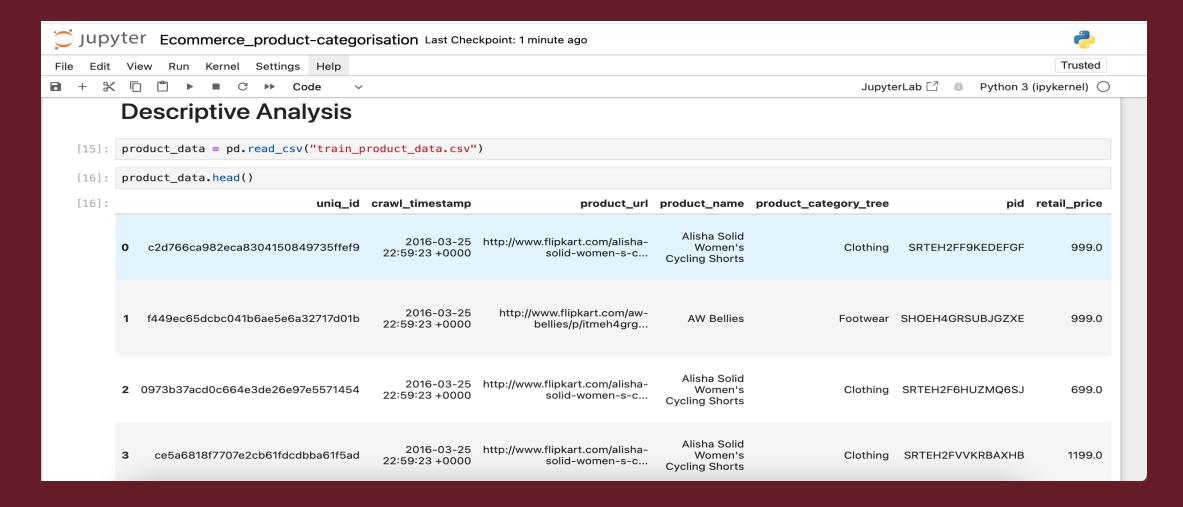
E-Commerce product categorization

Welcome to the "**Ecommerce Product Categorization**" hackathon, hosted by

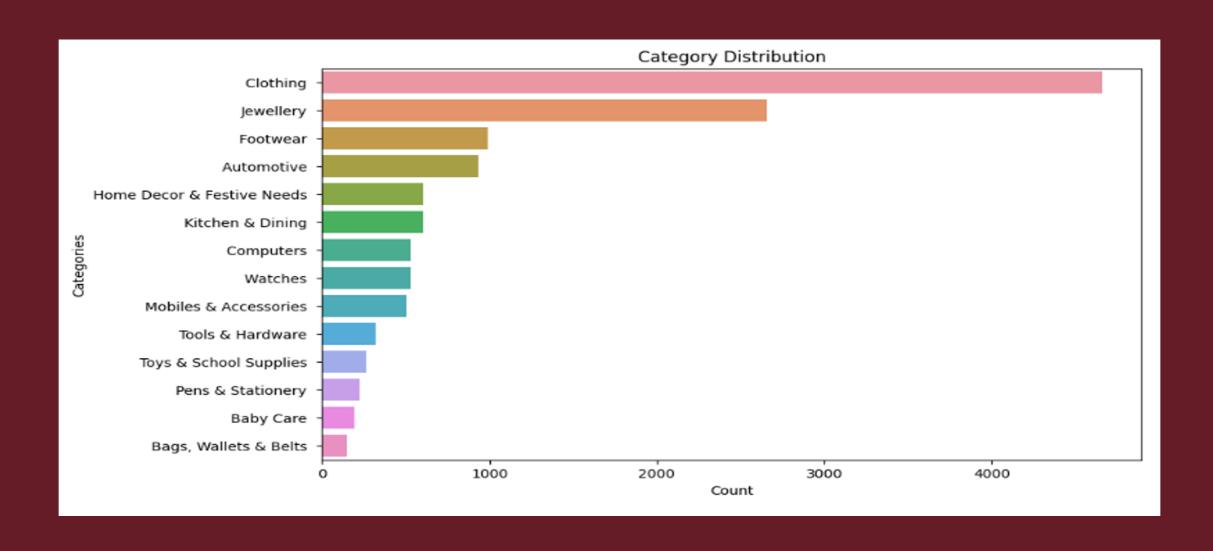
KnowledgeHut! This exciting competition challenges
you to apply your data science, machine learning &

NLP skills to a real-world problem in the retail sector.

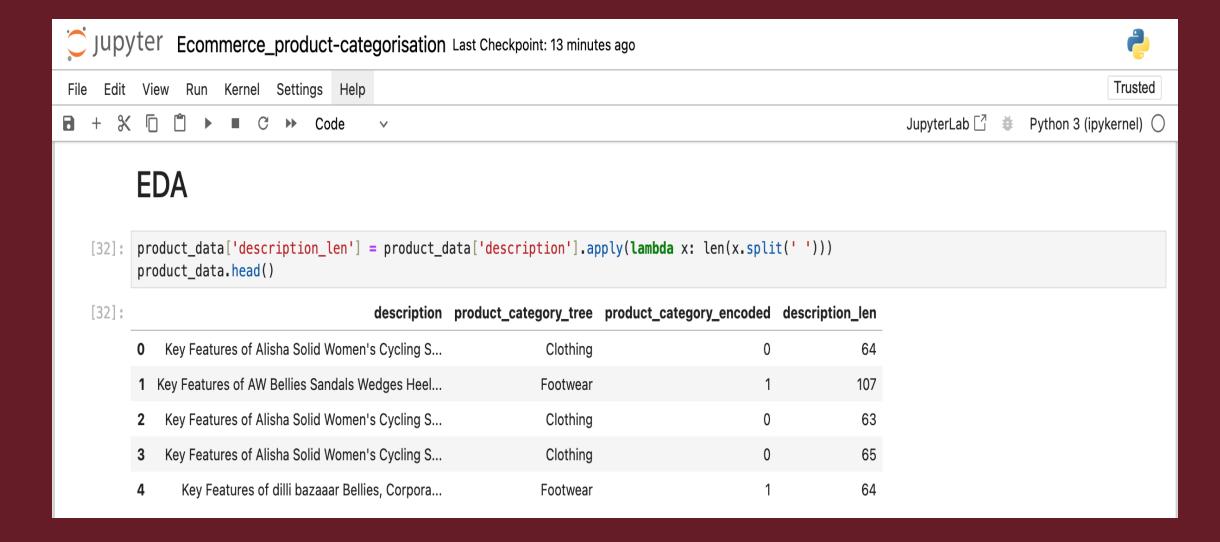
Descriptive Categories



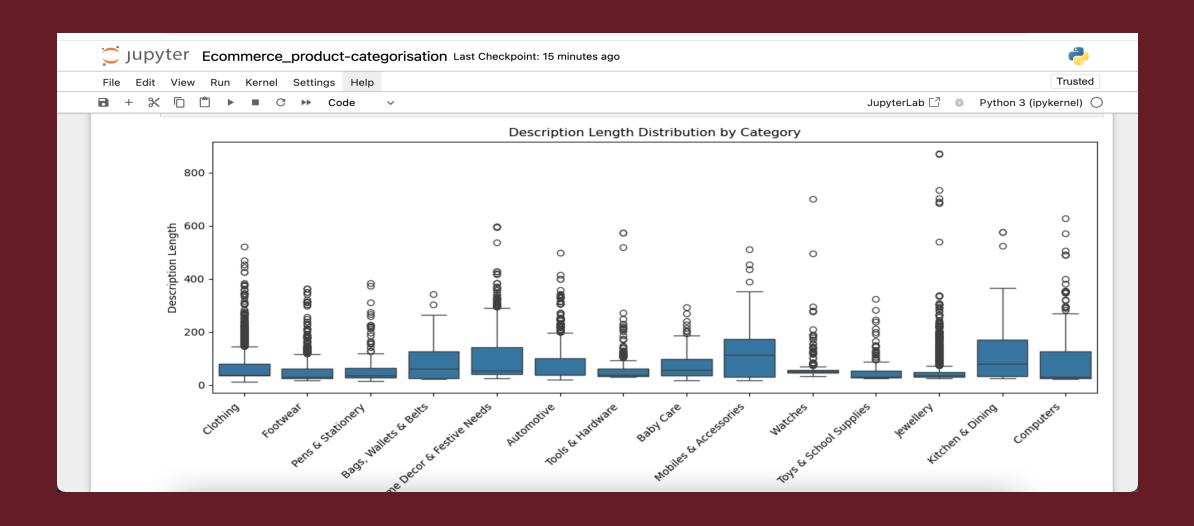
Category Distribution



Exploratory Data Analysis



EDA



Word Distribution after Normalization

Training Data



Testing Data

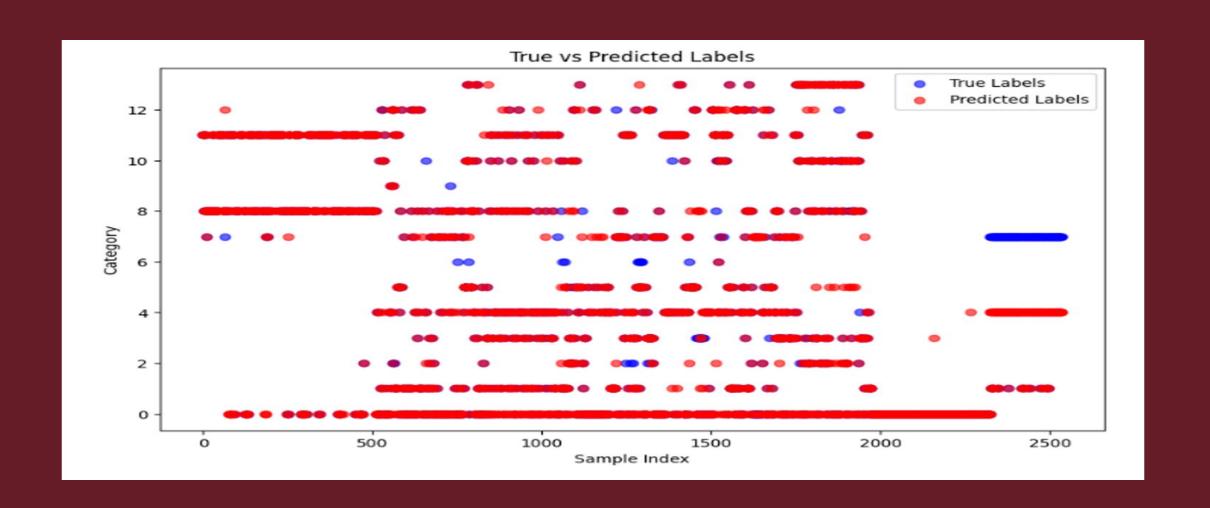


HyperParameter Tuning on Best Performed

Classification report for training set						
	precision	recall	f1-score	support		
Automotive	1.00	1.00	1.00	748		
Baby Care	0.85	1.00	0.92	156		
Bags, Wallets & Belts	1.00	1.00	1.00	122		
Clothing	1.00	0.99	1.00	3730		
Computers	1.00	0.97	0.99	423		
Footwear	0.98	1.00	0.99	790		
Home Decor & Festive Needs	1.00	1.00	1.00	485		
Jewellery	1.00	1.00	1.00	2126		
Kitchen & Dining	1.00	1.00	1.00	485		
Mobiles & Accessories	1.00	1.00	1.00	401		
Pens & Stationery	0.99	0.94	0.96	179		
Tools & Hardware	1.00	1.00	1.00	257		
Toys & School Supplies	0.95	1.00	0.97	209		
Watches	1.00	1.00	1.00	421		
A 0.00003 - 40.0003						
accuracy			0.99	10532		
macro avg	0.98	0.99	0.99	10532		
weighted avg	0.99	0.99	0.99	10532		

Classification report for test set						
	precision	recall	f1-score	support		
Automotive	0.99	1.00	1.00	187		
Baby Care	0.76	0.90	0.82	39		
Bags, Wallets & Belts	0.91	0.97	0.94	30		
Clothing	1.00	0.99	0.99	933		
Computers	0.97	0.98	0.98	106		
Footwear	0.98	0.99	0.99	198		
Home Decor & Festive Needs	0.95	0.99	0.97	121		
Jewellery	1.00	1.00	1.00	532		
Kitchen & Dining	0.98	0.98	0.98	121		
Mobiles & Accessories	0.97	0.99	0.98	100		
Pens & Stationery	0.94	0.71	0.81	45		
Tools & Hardware	1.00	0.97	0.98	64		
Toys & School Supplies	0.83	0.92	0.88	53		
Watches	1.00	1.00	1.00	105		
accuracy			0.98	2634		
macro avg	0.95	0.96	0.95	2634		
weighted avg	0.98	0.98	0.98	2634		

Prediction on Test Data



Thank You

