Artificial Intelligence 2CSDE85 EL3 Prac1 19BCE248

Al Tools

Sr No	Tool Name	Advantages/Best Suitable Scenario	Applications
1	Copy.ai	Content Generator for different social media platforms	Used for startup marketing, youtube description
2	Beautiful.ai Different theme general presentation		Used to make business or college or school presentations
3	Hotpot.ai	Image processing techniques	Design assistant
4	Deep-nostalgia	To see our old static photos in dynamic way	Animating static photos
5	Pfpmaker	Profile photo generator with different background colors and pictures	Profile photo generator for different social media platform
6	Brandmark.io	Logo generator based on keywords and brand name	Used for startup business to make a logo
7	Deep-image.ai, Bigjpg	Used for good and fast image enlargement	Image enlargement
8	Lumen5	Video generator with different themes, photos and contents	Used for digital marketing

9	Namelix	Namelix Brand name generator based on given keywords	
10	Content DNA platform	Content analysis on-scene level, used to train our own or publicly available content of any type like movies, series, events, TV shows.	Unsupervised Machine Learning training on our data
11	Amazon Alexa, Google Assistant	Used for two way communication, to connect camera, lights and entertainment systems	Virtual Assistant
12	Blue River Technology, Harvest CROO Robotics, PEAT	For agricultural tasks like harvesting crops.	Agriculture

13	Trace Genomics, SkySquirrel Technologies, aWhere, FarmShots	Monitoring crop and soil health. To find environmental effect on crop yield	Agriculture
14	PathAl	To assist pathologies in making more accurate diagnoses	Healthcare
15	Zebra Medical Vision	Receives imaging scans and automatically analyzes them for various clinical findings it has studied	Healthcare
16	Deep Blue Al	A chess playing developed by IBM	Game
17	HubSpot SEO	Provides suggestions for topic clusters and related subjects. Helps to discover and rank for topics that people are searching for	Content Marketing

18	Conversable	Connects with Facebook, Twitter, Amazon Alexa, Google Assistant, SMS and more. Reduces costs and response times by automating resolutions to common questions	Chat and Messaging
19	Jetlore	Makes predictions about consumers and their behavior on the internet	Ecommerce
20	Albert Al	Breaks down large amounts of data to help you customize campaigns	Analytics Al Tools

Open Source AI Tools

Sr No	Name	Description	Pros	Cons
1	Tensorflow	 Most popular and end-to-end open source frameworks for Machine Learning Available in multiple languages Predictive analysis Robust ML production and transfer learning 	 Allows easy deployment of computation due to flexible architecture Used to build neural network and ML models instantly Compatible with different TPUs, CPUs, GPUs 	 Computation speed can be better Difficult to find an error and to debug due to its unique structure Requires fundamentals knowledge of advanced calculus, linear algebra, and ML

2	Apache SystemML	Swift processing and cost efficient Multi-language and sophisticated analysis support Integration with Hadoop	 Flexible and scalable Automatically optimizes usage based on data cluster characteristic to enhance efficiency Offers speed and multilingual support 	 No support for real time processing Not useful for multi-user environment No dedicated file management system Expensive
3	Scikit Learn	Python based open source ML library Offers data mining and analysis capabilities Adaptive and data ingestion Clustering, classification, regression Model selection, cross-validation datasets and digital assistants	Offers support for supervised and unsupervised ML algorithms Reusable and accessible to everyone Properly documented and backed by the international community	-
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	4	PyTorch	 TorchServer deploys PyTorch model at scale Allows for distributed training Hybrid front-end Simple user interface 	 Fast, flexible experimentation and efficient production Supported on major cloud platforms Allows for seamless development and easy scaling 	-
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5	Caffe	A deep learning library Written in C++ Has a Python interface	 Offers extensible code that fosters active development Focuses on expressiveness, speed, and modularity 	 Deployment for production i not very easy The learning curve is steep
6	OpenCV	ML and Computer Vision Software Multiple interfaces Programming functions library	 Easy to use Leverage hardware acceleration Multi core system Offers algorithmic efficiency to process real time program 	-
7	Tesseract	Optical Character Recognition Engine Offers support for Unicode Used to text detection	Supports multiple languages easy to use Works well with 300 DPI files Allows seamless creation of sandwich PDF files	Rudimentary image processing Only read TIFF files

Conclusion

In this practice, I explored a few artificial intelligence tools and got to know about their pros and cons.