Term Project - Milestone 1

Group Details		
Serial	**Name**	**ID**
1	Hamza Aslam	191400088
2	Bilal Tariq	191400036
3	Waqar Ali	191400132
4	Muhammad Uzair	191400013
5	Husnain Ali	191400118

Review of Machine Learning Applications

Serial	Application of AI	AI Algorithm
1	Siri, Alexa, Google Now, and other well-known virtual personal assistants are just a few examples. When asked over the phone, they provide assistance in discovering information, as the name implies. All you have to do is ask after activating them.	Natural Language Processing (NLP)
2	Videos surveillance, including IP webcams, at-home cameras, and extras like hardware security cameras, etc. These days, crimes may be detected before they happen thanks to the AI-powered video surveillance system. They keep tabs on those who exhibit strange behavior, such as spending a lot of time standing still, tripping, or taking naps on benches. As a result, the technology may inform human attendants, potentially preventing accidents. Also, they aid in enhancing monitoring services when such actions are reported and confirmed as real.	Deep learning algorithm
3	Google Weather Forecasting, the weather prediction system Anybody who has experienced being wet after leaving the home without an umbrella can attest to the infamously poor accuracy of weather predictions in anticipating the likelihood of oncoming rain. Now, researchers at Google DeepMind say their artificial intelligence-based forecasting system can estimate the possibility of rain within the next two hours more precisely than other methods.	Deep Neural Networks (DNNs)
4	The identification of phony social media profiles by Instagram The main goal of this study is to identify automated and fake Instagram profiles that produce fake interaction. As far as we are aware, there is no publicly available dataset on automated and phony accounts. Two datasets have been generated expressly for this purpose in order to identify automated and fraudulent accounts. Machine learning strategies used to uncover these accounts include naive Bayes, logistic regression, and neural networks.	Neural Networks, Naive Bayes logistic regression,
5	One of the most well-known applications for traffic navigation is Traffic Predictions, Google Maps. Over time, it has developed from a straightforward turn-by-turn service to providing traffic alerts and estimating your departure time to make it to that appointment in your Google Calendar.	Naive Bayes
6	Product Suggestions, Several e-commerce and entertainment businesses, like Amazon, Netflix, etc., employ machine learning to provide product suggestions to users. Because of machine learning, if we look for a product on Amazon, we begin to see advertisements for the same product when using the same browser to explore the internet.	k-nearest neighbors algorithm, and latent factor analysis (LFM)
7	Machine learning is crucial to the development of self-driving automobiles. The most well-known automaker, Tesla, is developing a self-driving vehicle. In order to train the automobile models to recognize people and objects while driving, unsupervised learning was used.	Bayesian regression, neural network regression, and decision forest

		regression
8	Duolingo produced chatbot characters that may react differently to a variety of possible stimuli under the name ChatBot. The "help me reply" button might be used by the user if they ever got stuck. The chatbots for Duolingo include Renèe the Driver, Chef Roberto, and Officer Ada, with the announcement that further characters would soon be added to the programme.	NLP, Decision Trees, Naïve Bayes
9	Blockchain is a vital technology in trading for the majority of well-known cryptocurrencies, including Bitcoin and Ethereum. Retail investors and major financial institutions are growing more and more interested in these trading cryptocurrencies. These days, advanced Machine Learning algorithms are built into conventional trading bots.	Reinforcement Learning
10	Recommendation engines, music and film suggestions, Users are given recommendations for connections or products based on their behavior and interests through social networking. Collaborative filtering can provide individualized suggestions to specific users by examining the preferences and actions of various users, which can enhance their overall user experience and happiness.	Collaborative filtering
11	Employment search, news articles, and online shopping. Content-based filtering can provide customized recommendations that are more likely to be of interest to the user by examining user preferences and behavior, which can increase engagement and user satisfaction.	Content-based filtering
12	Medical imaging, self-driving automobiles, video analysis, image recognition, and natural language processing. Convolutional neural networks may uncover patterns and characteristics that are helpful in certain applications, including detecting objects in photos or spotting anomalies in medical scans, by evaluating vast volumes of data.	Convolutional Neural Networks