Although there is evident success in detection of fake news and posts using various Machine learning approaches. However everchanging characteristics and features of fake news in social media networks is posing a challenge in categorization of fake news . However the main characteristic feature of deep learning is to compute hierarchical features . With the implementation of deep learning research and applications in recent past, lots of research works is going to implement deep learning methods, like convolutional Neural Networks deep Boltzmann machine Deep neural network and Deep autoencoder model in various applications, like audio and speech processing Natural language processing and modelling information retrieval objective recognition and computer vision as well as multimodal and multi-task learning in categorization of news posts