ALTA 2022 Submission 9528

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Submission 9528	
Title	Medical Text Classification Using Graph Convolutional Network
Paper:	(Sep 11, 17:57 GMT)
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Abstract	In this modern era of technology, every day a huge volume of data is being created. Researchers are using cutting-edge technology to understand the data for extracting useful insights. In the field of data science and artificial intelligence, these data are playing a significant role to contribute to the advancement of technology. Using these data algorithms, like deep learning, machine learning, and natural language processing, are used to solve advanced problems, like object recognition, business prediction, and analysis. Among these graph-related problems like traffic forecasting, image classification and social media graph analysis, are growing every day. We can find graphs all over the world. The internet itself is a graph network of devices connected to each other, along with social media, molecules etc. In our research, we are proposing a way, which takes texts of medical symptoms and classifies them to the kind of medical branches, like dermatologist or dentists, the text fits best, using Graph Convolutional Network (GCN). In this proposal we have aimed to find the connection between the nodes (patients) which have been classified to the same type of medical branch from the texts of symptoms or past history of their medical records. After applying a GCN approach we have come to a result which can classify 90.2% medical text correctly to their needed specific medical branches
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