Connectivity Guardian, shortened as ConGu, aims to develop a system capable of predicting and alerting when a device is on the verge of losing signal. This system is particularly beneficial in environments where maintaining consistent connectivity is crucial such as in mining regions. The key features of this project include continuous monitoring of signal strength, predictive analysis using data mining techniques, real-time alerts for impending connection loss, and historical data analysis in order to enhance prediction accuracy. The technologies employed in this project encompass data mining for predictive analysis, machine learning for improving prediction accuracy over time, and networking protocols for monitoring signal strength. Despite potential challenges such as ensuring accurate prediction in varying environments, and real-time processing of signal strength data, this project offers an exciting opportunity to delve into the intersection of data mining, networking, and machine learning. The project name Connectivity Guardian stands for Controlled Guidance and Utility for Alerting Real-time Disconnection, Intelligent Analysis and Navigation.

This abstract might not be final but we plan to make this feature for now

Keywords: *Connectivity Guardian, Congu, Device Signal Loss Prediction, Consistent Connectivity, Signal Strength Monitoring, Predictive Analysis using Data Mining Techniques, Real-time Alerts for Impending Connection Loss, Historical Data Analysis for Prediction Accuracy, Data Mining for Predictive Analysis, Machine Learning for Prediction Accuracy Improvement, Networking Protocols for Signal Strength Monitoring, Accurate Prediction in Varying Environments, Real-time Signal Strength Data Processing, Intersection of Data Mining, Networking, and Machine Learning, Intelligent Guidance and Navigation.*

We plan to make this prototype in either a program or an app that could be used in a phone