

CEVI- AN APPLICATION BASED INNOVATION FOR DIGITAL MOBILE AUDIOMETRY

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An audiometer is a machine used for evaluating hearing acuity. They usually consist of an embedded hardware unit connected to a pair of headphones and a test subject feedback button, sometimes controlled by a standard PC. Such systems can also be used with bone vibrators, to test conductive hearing mechanisms. Audiometers are standard equipment at ENT (ear, nose, throat) clinics and in audiology centres. An alternative to hardware audiometers are software audiometers, which are available in many different configurations. Screening PC-based audiometers use a standard computer. Clinical PC-based audiometers are generally more expensive than software audiometers, but are much more accurate and efficient. They are most commonly used in hospitals, audiology centres and research communities. These audiometers are also used to conduct industrial audiometric testing. Our app-based audiometry can test a person's hearing level, and it is time-efficient and provides results without the need for doctors or assistant nurses. This app-based audiometry is commonly used in quiet places, but we can take the test anywhere we desire. The test should be silent regardless of the location. The accuracy is influenced not only by the patient's hearing capacity but also by the environmental surroundings. The traditional audiometer costs around 1300 to 1800 rupees, but our app-based audiometer is budget-friendly and also the app has some additional features like ENT doctor suggestion when the person is under the normal hearing level or when the person got severely hear loss.