

ABSTRACT

Traditional methods of skill development often overlook the unique challenges faced by deaf & dumb students and struggle to adapt to the rapidly evolving job market. To address this disparity, our solution focuses on empowering disabled students by providing inclusive access to skill enhancement and career guidance. In addition, data structure integrates the binary tree data structure into our decision-making processes. This facilitates the implementation of decision tree algorithms for personalized skill assessments and career recommendations. Each node in the binary tree corresponds to a decision point based on specific criteria related to skills, career paths, and job preferences. For Software testing, utilizing Anaconda with Python offers a robust framework. Begin by creating a virtual environment to manage dependencies, then install necessary packages like pytest and coverage. Conduct thorough testing to ensure the platform's accessibility, functionality, and inclusivity across various user groups, including disabled and mainstream students. Utilize coverage analysis to assess code coverage and identify areas for improvement. Through systematic testing methodologies, Anaconda facilitates the validation of the platform's features, AI-driven functionalities, and database management. A dynamic job recommender system, driven by machine learning algorithms, continuously refines its suggestions based on user feedback. Web development technologies ensure seamless access across various devices and platforms.