

Building a career advisory system for high school students using Artificial Intelligence algorithms

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Abstract: The project builds a career orientation support tool for high school students by combining the Holland psychological test and academic performance analysis. The system uses clustering algorithms such as K-Means and DBSCAN to group student profiles with similar characteristics, thereby suggesting suitable career paths based on abilities and interests. The application provides a user-friendly web interface, helping students and parents gain an overview of the labor market and make more informed decisions during the university entrance exam.

Keywords: Career counseling, Artificial intelligence, Clustering algorithm

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