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Campus Placement Prediction by Using Machine Learning

ABSTRACT

This project aims to develop a predictive system for campus placements to help students and institutions assess employability and improve placement outcomes. By analysing data from academic records, skills, and extracurricular achievements, the system predicts placement success with high accuracy. The data is pre-processed and transformed into meaningful features, ensuring robust model training and evaluation. A user-friendly web application is developed, allowing students to input their details and receive instant placement predictions. The platform also provides actionable insights for skill enhancement and performance improvement. Designed to support students, educators, and career counsellors, the system fosters a data-driven approach to placement preparation. Future improvements include incorporating additional data sources and real-time analytics to enhance its effectiveness and adaptability. For this we have experimented with six different machine learning algorithms i.e. Support Vector Classifier, Decision Tree, K Nearest Neighbours, Gradient Boosting Classifier, Catboost, Random Forest. Catboost algorithm gives more accuracy comparatively to other algorithms for the dataset we used.

Submitted by	Signature of Guide	Signature of HOD
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