



PROJECT REPORT

MACHINE LEARNING  
  
STUDENT GRADUATION AND PLACEMENT FORECASTING

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# **PROJECT DETAILS**

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| --- | --- | --- | --- |
| **Project Name** | Student Graduation and Placement Forecasting | | |
| **Project Sponsor** | Tushar Topale | | |
| **Project Manager** | Harshada Topale | | |
| **Start Date** | 07-08-2023 | **Completion Date** | 31-09-2023 |

# **SUMMARY**

This project aimed to develop a placement status prediction model using machine learning techniques and create a Python function to predict the graduation status of students based on academic data. The project addresses the need for automated student placement prediction and provides a valuable tool for educational institutions. The long-term benefits include improved placement success rates and better academic planning.

# **INTRODUCTION**

## Background

The project responds to the need for accurate placement prediction and efficient academic planning in educational institutions, driven by discussions during requirement elicitation meetings.

## Stakeholders

Stakeholders include educational institutions, students, and recruiters.

## Objectives

The objectives outlined in the Project Charter, such as building a placement prediction model and creating a graduation status prediction function, have been successfully achieved.

# **METHODOLOGY**

## Considerations & Assumption

Assumptions were made regarding data quality and availability. Constraints include limited data for certain features.

## Approach

A structured machine learning approach was adopted to build the placement prediction model. A Python function was created to predict graduation status based on academic data.

## Activities

Key activities included data preprocessing, feature engineering, model development, and testing.

# **TARGETTED V/S ACHIEVED OUTPUT**

The targeted output was a placement prediction model with a 66% accuracy rate, which was achieved. Also, the function is implemented to predict the graduation year of the students. The accuracy can be improved with a greater number of instances in the training dataset.

# **CONCLUSION**

The project's outcomes benefit educational institutions by enhancing placement prediction accuracy and aiding academic planning. Future scope includes expanding the model's capabilities and integrating it with student advising systems.