

# **FEAT HUNCH STUDENTS PERFORMANCE PREDICTOR IN ML**

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In Partial Fulfillment of the Requirements  
For the Degree of**

## **BACHELOR OF TECHNOLOGY**

**In  
Computer Science and Engineering**

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**To the  
Faculty of Applied Sciences**

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LUCKNOW  
May, 2019**

## CERTIFICATE

This is to certify that Ankit Kumar(1509010035), Amit Kumar Singh (1509010027) and Ankit Agrawal (1509010033) has carried out the research work as presented in this thesis entitled “FEAT HUNCH – STUDENT PERFORMANCE PREDICTOR IN ML” for the award of Bachelor of Technology from Dr. APJ Abdul Kalam Technical University, Lucknow under my/our supervision. The thesis embodies results of original work, and studies are carried out by the student himself/herself and the contents of the thesis do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

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## **ABSTRACT**

The specific focus of this report is education. The aim is to predict student performance. Data about students is used to create a model that can predict whether the student is successful or not in the field of studies, based on other properties. First, the training data set is taken as input. There are two different data sets, containing different types of information. These data sets are in tabular format, where each row represents a student and each column, or variable, contains certain information about a student, such as age, gender, family background or medical information. In addition, a column representing the success of the student is used as the variable that the algorithm is trying to predict. The algorithm creates a model, which is a function that outputs success or failure of the student, using other variables as input.

This report evaluates the effectiveness of different machine learning algorithms and methods. While algorithms that are used in creating predictive models are numerous, which focuses on three of them, which are linear regression, decision trees, and naïve Bayes classification. This project also measures the improvement made by feature engineering, which refers to modifying the data to make it more suitable for machine learning.

“FEAT HUNCH – STUDENT PERFORMANCE PREDICTOR in ML” aims at connecting all the students and teachers in an institute.

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