VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

A PROJECT REPORT ON

"POVERTY LEVEL CHARACTERIZATION VIA FEATURE SELECTION AND MACHINE LEARNING"

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled **"POVERTY LEVEL CHARACTERIZATION VIA FEATURE SELECTION WITH MACHINE LEARNING"** has been successfully completed by

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the bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

A persistent socio-cultural problem of mankind is "poverty", which requires accurate characterization in order to construct well designed policies for intervention. Unfortunately, the categorization along the poverty - wealthiest scale is not simply determined by applying surveys. Population is large, subjective opinions are usually biased, and available data are only indirectly related. In this project extraction of subset of features that can classify the poverty in a better manner, predict the class for the end user by making use of Random Forest Algorithm.