“Auto-Regressive Models for Predicting Future Ranks for Institutions”

A Final Year Project Abstract submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNVERSITY ANANTAPUR.

In Partial Fulfillment of the Requirements for the Award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

BY INT-B-MT-27

|  |  |
| --- | --- |
| **MANTHRI NANDINI** | **19121A05D7** |
| **MARUBOYINA POOJITHA** | **19121A05D8** |
| **M NIKHIL KUMAR REDDY** | **19121A05D9** |
| **MAVILLA PRAVALLIKA** | **19121A05E0** |
|  |  |
|  |  |

Under the Guidance of

**Dr. A.V. Sriharsha**

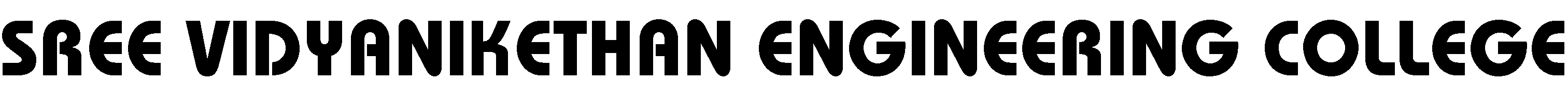
Professor

Dept. of CSE



­

Department of Computer Science and Engineering



(Affiliated to JNTUA, Anantapuramu)

Sree Sainath Nagar, Tirupathi – 517 102

2019-2023

**ABSTRACT**

Prediction becomes handy in forecasting the likelihood of a particular outcome. Machine Learning makes the task of Prediction convenient and efficient due to its most efficient Algorithms for prediction. The rankings are provided yearly so the analysis of data is of Time Series, So the Prediction of ranks becomes efficient with Machine Learning Auto-Regressive models ARIMA and Facebook’s Prophet Model for Time Series Analysis. The above models become efficient due to the trend in the data of Time-Series. This project intends to build a model for NIRF Rank prediction with interactive visualisation of ranking parameters. This Project also suggests the areas where the institution should be focused to achieve for attaining the standards fixed by the National Institutional Ranking Framework (NIRF). This framework outlines a methodology to rank institutions across the country. The methodology draws from the overall recommendations and broad understanding arrived at by a Core Committee set up by MHRD, to identify the broad parameters for ranking various universities and institutions. The parameters broadly cover “Teaching, Learning and Resources,” “Research and Professional Practices,” “Graduation Outcomes,” “Outreach and Inclusivity,” and “Perception”. The Progress in the Parameters signs the Improvement of the Quality of Educational Institutions in the Country. The NIRF Ranking is an important quantifier for aspirants looking for joining Institutions.