SIDDHARTHA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC – AUTONOMOUS)
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Accredited by NBA and NAAC with 'A+' Grade
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Department of Computer Science Engineering (AI & ML)

Industry Oriented Mini Project (2020-24 Batch)

Batch no: B10

Abstract Proforma

Academic Year: 2023-2024 Date:

Year & Branch: IV Year CSE(AI & ML) I Sem	**Section:**
Student Registration Details	1.Mohammed Siddiq(20TQ1A6652)
Roll Number & Name of the Student	2 Vinay(21TQ5A6605) 3. Apurv Patel(20TQ1A6611) 4.P Sai Kumar(20TQ1A6637)
Name of the Guide & Designation	Mrs Manaswini (Assistant Professor)

Area (Domain) of the Project	Machine Learning
Title of the Project	House Price Prediction Using Machine Learning Algorithm - The Case of Hyderabad,India
Tools Required	Jupyter Notebook, Google Colab, Python 3.9.13, Github

Abstract:

House prices are a significant reflection of the economy, and their value ranges are of great concern for clients and property dealers. Housing prices escalate every year, which reinforces the need for a strategy to predict future house prices. Factors influencing house prices include physical conditions, locations, and the number of bedrooms. Machine learning techniques like Linear Regression offer opportunities for prediction and visualization of housing prices. This project utilizes a Linear Regression model to predict housing prices using the Hyderabad Rent Price dataset from NoBroker.

Innovation in this project extends to user interaction through a Graphical User Interface (GUI) developed using Tkinter. This GUI facilitates user inputs and provides predicted prices based on the machine learning model's analysis. Such integration simplifies the prediction process and expands accessibility for individuals without expertise in the field. The inclusion of the Tkinter-based GUI enhances the project's originality, making the predictive model more user-friendly and widely applicable.

Keywords: Machine learning, Linear Regression, House Price Prediction, NoBroker, Graphical User Interface, Tkinter

Signature of the Guide **Project Coordinator** **HOD-AI & ML**