

	SR UNIVERSITY Campus Warangal	
	Program: III - B.Tech (CS& AI)	
	Professor(a): Dr. Venkataramana Veeramsetty, Professor	
	Department: Computer Science and AI	Semester: II
Generative AI - Assignment - 6.2		
Instructions:		

1. (1 ponto) Design a multilayer ANN architecture according to the requirements shown below. Train, test, save (.h5) and deploy the model to predict the housing price using **Keras** deep learning library
2. (1 ponto) Calculate training and testing error metrics
3. (1 ponto) Build the application by loading the saved ANN model.

Tabela 1: ANN Architecture

Layer	Neurons	Activation Function
Hidden Layer - 1	15	relu
Hidden Layer - 2	20	relu
Hidden Layer - 3	25	relu
Hidden Layer - 4	20	relu
Hidden Layer - 5	15	relu

Tabela 2: Training Parameters

loss function	epochs	batch size	error metric	Optimizer
Mean Square Error	150	32	Mean absolute Error	adam

Dataset: https://drive.google.com/file/d/1AcdENlVm5dccNyo_vgdMbneX8YVvH5R3/view?usp=sharing

- **Expected learning Outcomes from this assignment related to python**
 - Students are able to build ANN model with python deep learning libraries
 - Students are able to deploy trained ANN model
 - Students are able to measure training and testing performance of trained model
- Last date to submit: 20.02.2025
- Date of activity: 20.02.2025
- Naming convention
 - Report File Name: RollNo_Week No._Assignment No.

Date: 2025-02-19