

CAPSTONE PROJECT MICROSOFT DATA & ARTIFICIAL INTELLIGENCE

FERZA REYALDI - DAI 003

MARIBISNIS

MariBisnis wants to know the business trend of selling homes in the United States.

The goal is to predict the price of a house and map out the distribution of the data.

STEP-BY-STEP

01

DATA UNDERSTANDING

02

CREATE WORKSPACE & RESOURCE

03

CREATE & DEPLOY PIPELINE

04

CREATE A REPORT IN POWER BI

DATA UNDERSTANDING

This dataset contains house sale prices in United States between May 2014 and May 2015.

DATA UNDERSTANDING

Column name	Description	Column name	Description
id	a notation for a house	date	date house was sold
price	price is prediction target	bedrooms	number of bedrooms per house
bathrooms	number of bathrooms per bedrooms	sqft_living	square footage of the home
sqft_lot	square footage of the lot	floors	total floors (levels) in house
waterfront	house which has a view to waterfornt	view	has been viewed
condition	how good the condition is overall	grade	overall grade given to the housing unit, based on the grading system
sqft_above	square footage of house apart from basement	sqft_basement	square footage of the basemenet
yr_built	built year	yr_renovated	year when house was renovated
zipcode	zipcode	lat	latitude coordinate
long	longitude coordinate	sqft_living15	living room area in 2015 (implies some renovation), might or might not have affected the lotsize
sqft_lot15	lot size area in 2015 (implies some renovations		

CREATE WORKSPACE & RESOURCE

Basics

Subscription Azure for Students

Resource group (New) ferza-ml

Region Southeast Asia

Workspace name capstone-ferza-dai

Storage account (new) capstoneferzad7239751030

Key vault (new) capstoneferzad6906677918

Application insights (new) capstoneferzad2259061576

Container registry None

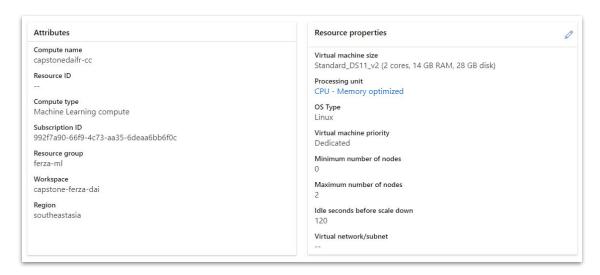
Create Azure Machine Learning Workspace

CREATE WORKSPACE & RESOURCE



Create compute resources: compute instance

CREATE WORKSPACE & RESOURCE



Create compute resources: compute cluster

CREATE AND DEPLOY PIPELINE

- Training pipeline
- Auto Inference Pipeline

EVALUATE MODEL

Mean Absolute Error (MAE)	73445.9054
Root Mean Squared Error (RMSE)	122700.0282
Relative Squared Error (RSE)	0.1181
Relative Absolute Error (RAE)	0.3170
Coefficient of Determination	0.8819

CREATE A REPORT IN POWER BI







THANK YOU!

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Capstone Repository: <u>Here</u>