Project Name: AGENT BASED REAL ESTATE VALUATION WITH AGENT COLLECTING REAL ESTATE, EXCHANGE RATES AND COMMODITY PRICES DATA ACQUISITION SOFTWARE

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Data Collection :

It was used to web scrape in four websites. First, we pulled the house prices and house features separately from Emlak.com, then the cryptocurrency regime from Uzmanpara.com, the concrete from santiyede.com and finally the iron prices from demirfiyatları.com. We combined the data we captured separately. We saved the combined data as a json file.

Explanation of the columns in the data set :

Column Name	Meaning	Example
Fiyat	The price of real estate	1.950.000 TL , 3.850.000 TL
Güncelleme Tarihi	Date of last change of the real estate price	22-02-2024 , 02-01-2024
Konut Tipi	The type of the real estate	Daire , Müstakil Ev, Bina
Mahalle	The neighbourhood of the real estate	Köprülü – Veysipaşa, Çeştepe , Meşrutiyet
Oda	The number of rooms of the real estate	2 , 5
Salon Sayısı	The number of halls of the real estate	1
Net M2	The net meter square of the real estate	125, 350
Bulunduğu Kat	The floor of the real estate	1.Kat, 2. Kat, Bahçe Katı, Zemin, Yüksek Giriş
Bina Yaşı	The age of the real estate	35 Yaşında, 1 Yaşında, Sıfır Bina
Eşya Durumu	Whether the property is furnished or unfurnished	Eşyalı Değil , Eşyalı
Banyo Sayısı	The number of bathrooms of the real estate	1 , 2

Cephe	The front of the real estate	Kuzey, Güney
Kira Getirisi	The rental income of the real estate	10.000 TL , 8.500 TL
Kullanım Durumu	The usage status of the property	Boş , Kiracılı, Mülk Sahibi
Aidat	The dues of the real estate	300 TL , 100TL
Isınma Tipi	The heating type of the real estate	Kombi ,Klima , Soba
Yakıt Tipi	The type of fuel used by the real estate	Doğalgaz, Kömür-Odun, Elektrik
Dolar	Dollar exchange rate	31,1231
Euro	Euro exchange rate	33,7927
Altın	Gold price	2.033,63
Petrol	Petrol price	80,58
Beton	Concrete price	2100
Demir	Iron price	23.638,43

Input : All values will be used as an input to predict future real estate prices.

Output : The future price of the real estate will be our output