





MAAŞ TAHMİNİ PROJESİ

GÖKÇE NUR SÖNMEZ **GAMZE BOZKUŞ** SIMGE LALE DENIZ ÖZDEMIRLI





İÇERİK

- 1 VERI SETI
- 2 ANALIZ
- 3 MODELLEME
- 4 WEB ENTEGRASYONU





Step VERI SETI

Bu veri seti bir şirketteki çalışanların maaşları hakkında bilgi içermektedir. Her satırda farklı bir çalışan temsil ediliyor.

AGE

GENDER

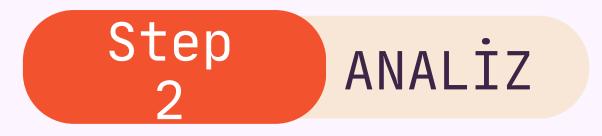
EDUCATION LEVEL

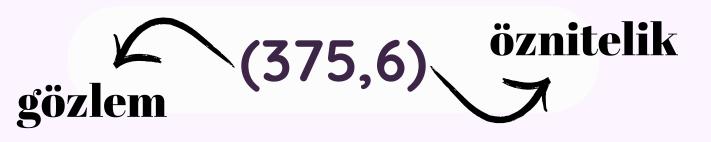
JOB TITLE

YEARS of EXPERIENCE

SALARY

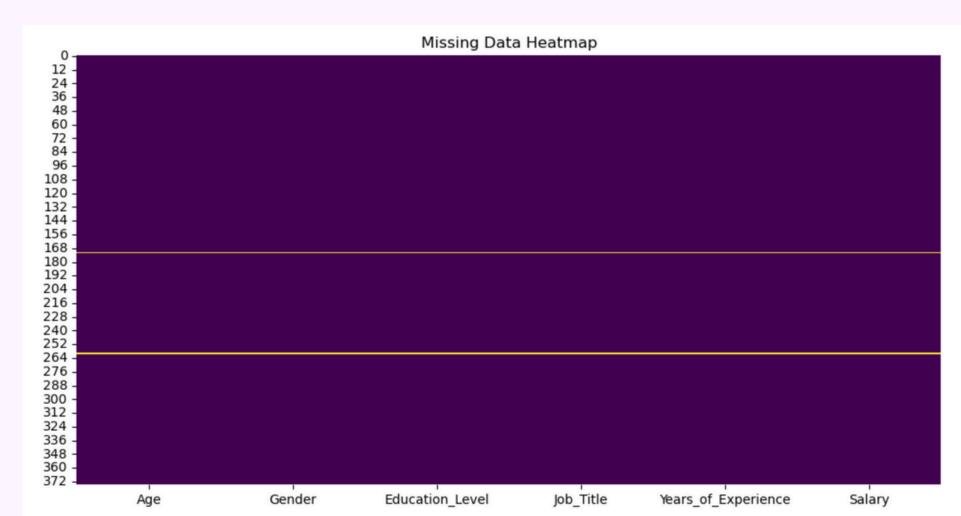








AGE
GENDER
object
EDUCATION_LEVEL
object
JOB_TITLE
object
YEARS_OF_EXPERIENCE
float64
SALARY
float64



	count	mean	std	min	25%	50%	75%	max
Age	373.0	37.431635	7.069073	23.0	31.0	36.0	44.0	53.0
Years_of_Experience	373.0	10.030831	6.557007	0.0	4.0	9.0	15.0	25.0
Salary	373.0	100577.345845	48240.013482	350.0	55000.0	95000.0	140000.0	250000.0

kategorik kolon

nümerik kolon

kardinal kolon

- Gender
- Education_Level

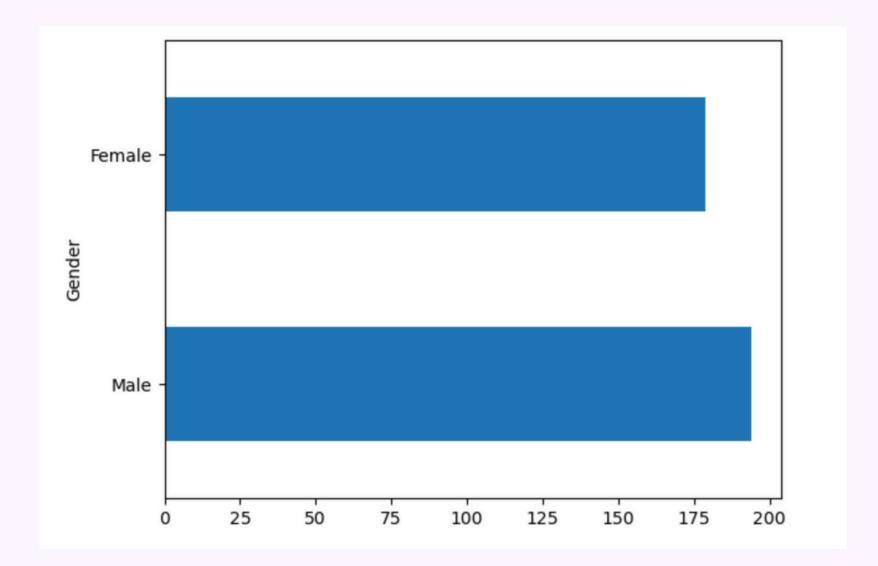
- Age
- Years_of_Experience
- Salary

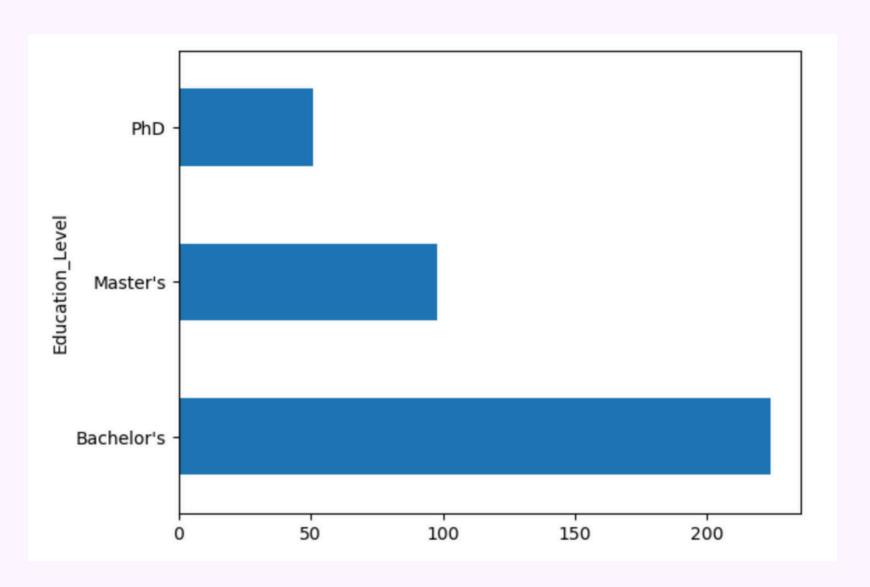


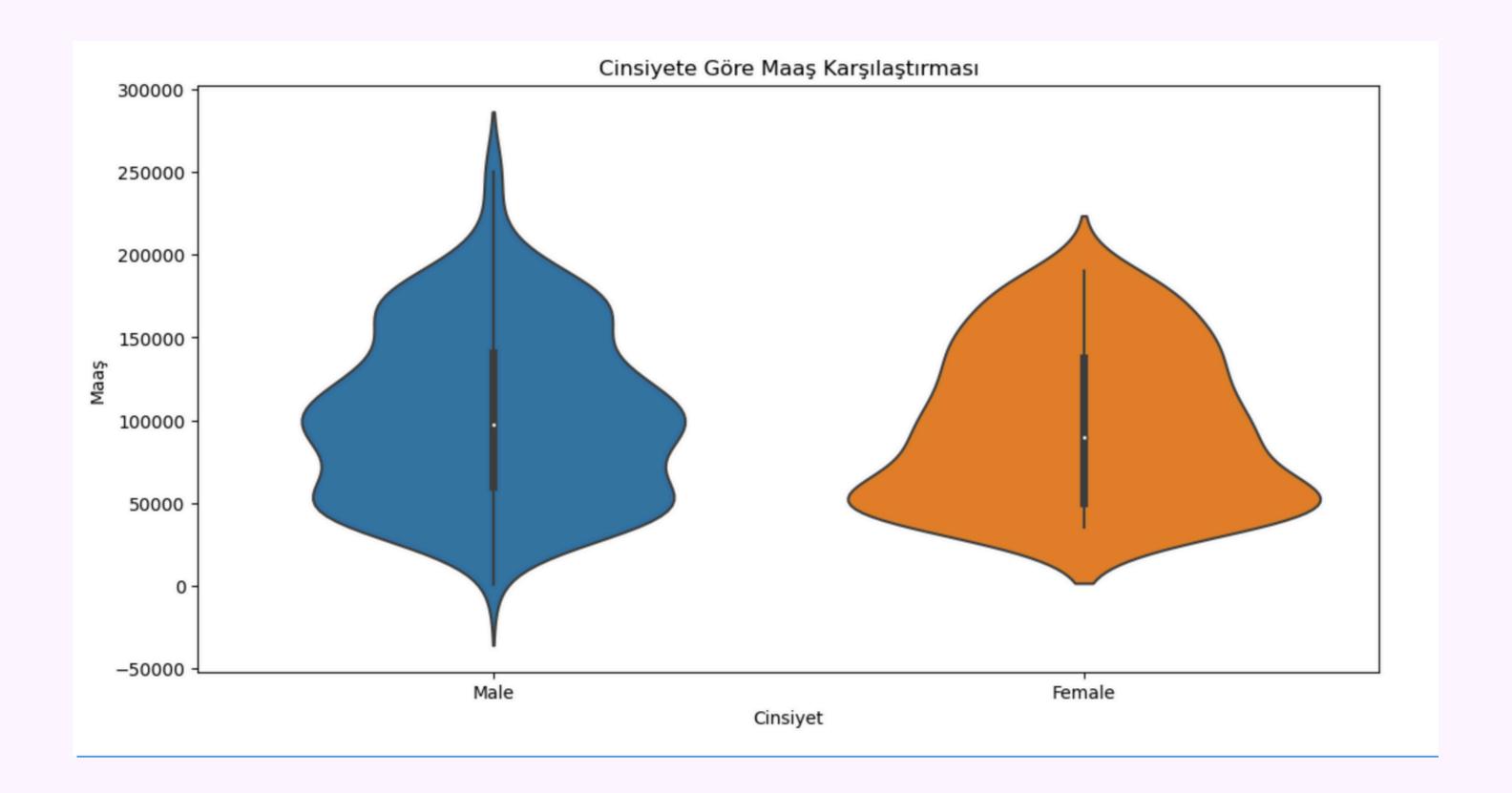
• Job_Title

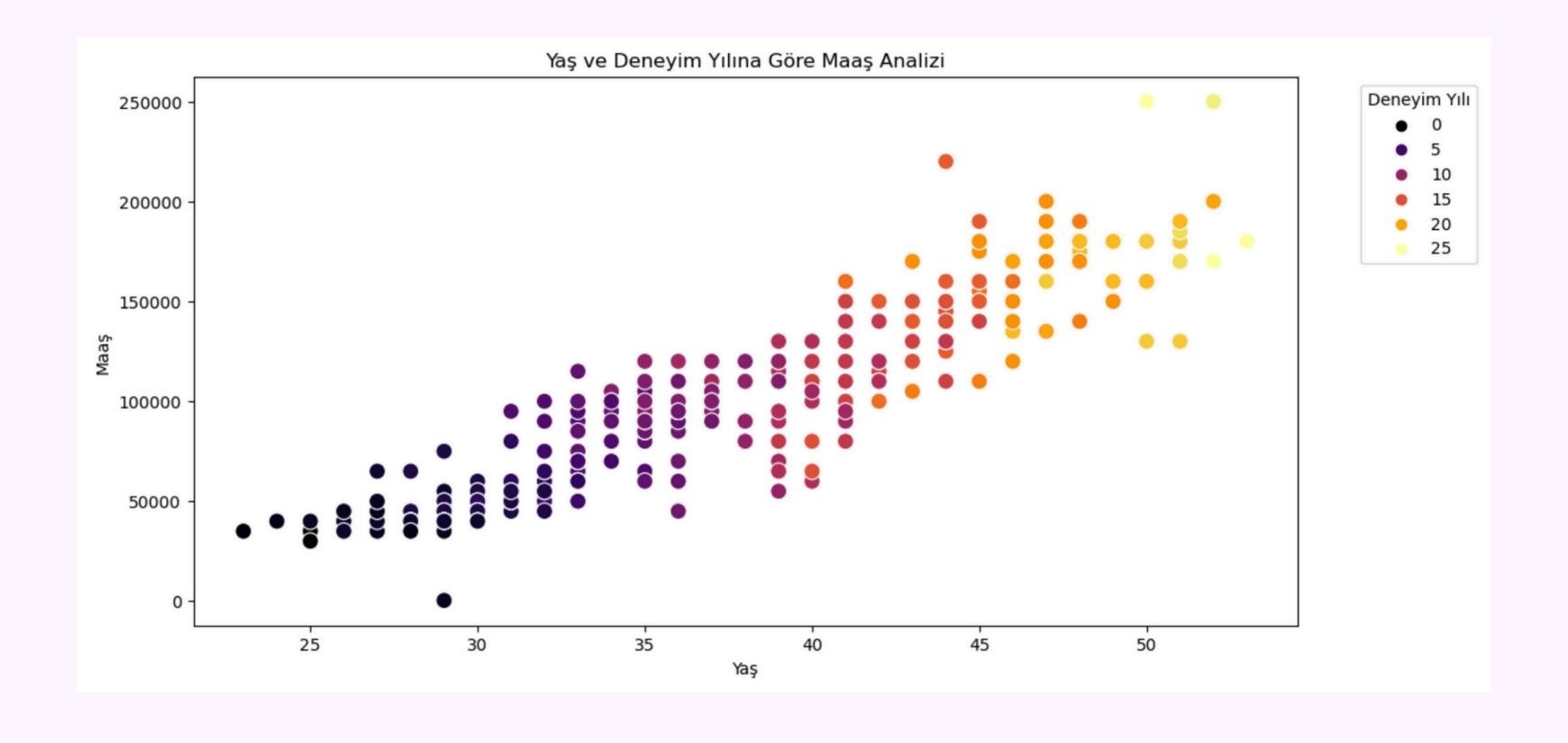


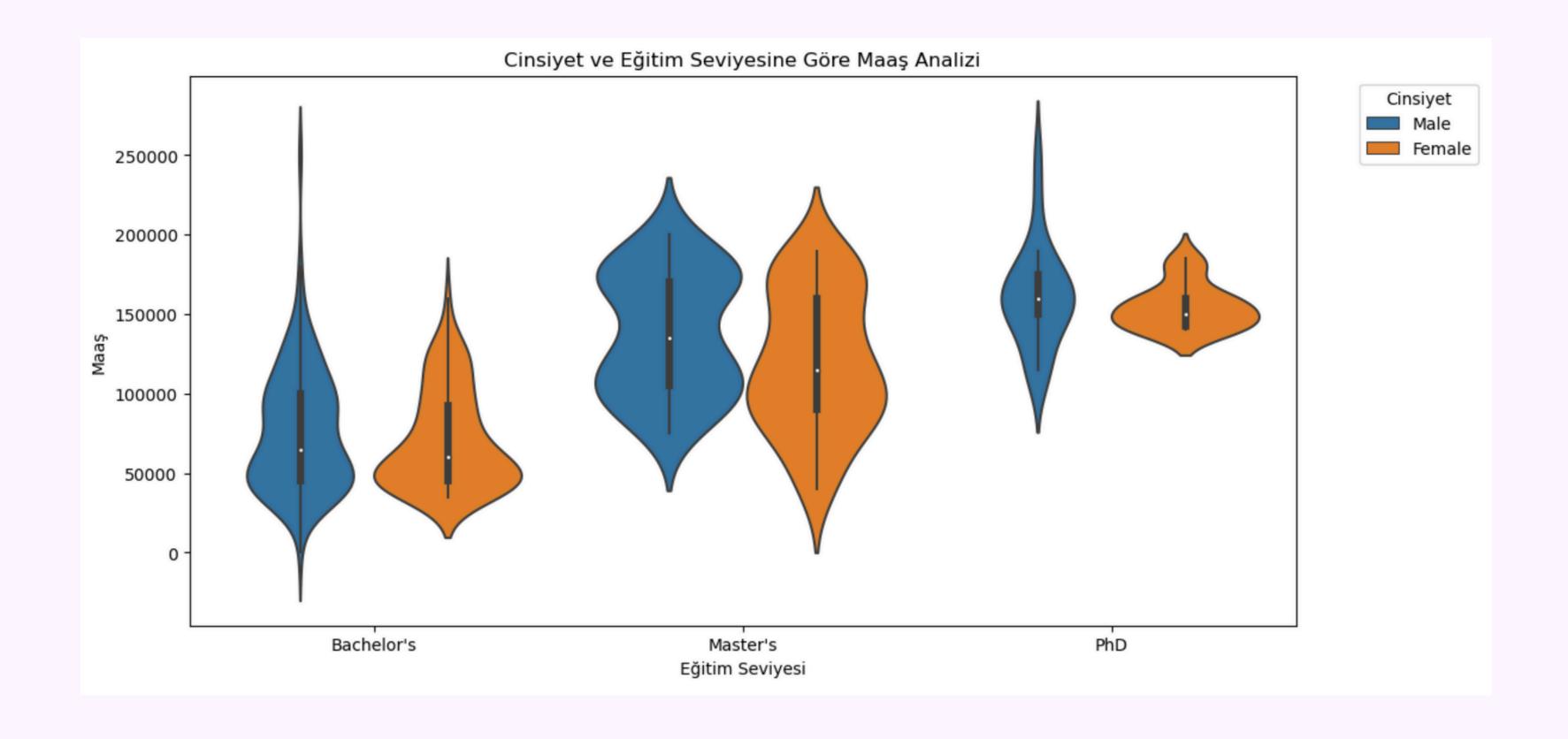
bins = [0, 30, 45, 60] labels = ['Young', 'Mid', 'Senior'] Job_Title job_title_bert_cluster
Marketing Coordinator 7
Marketing Manager 7
Marketing Specialist 7
Director of Marketing 7
Digital Marketing Manager 7
Content Marketing Manager 7
Marketing Coordinator 7
Senior Marketing Manager 7

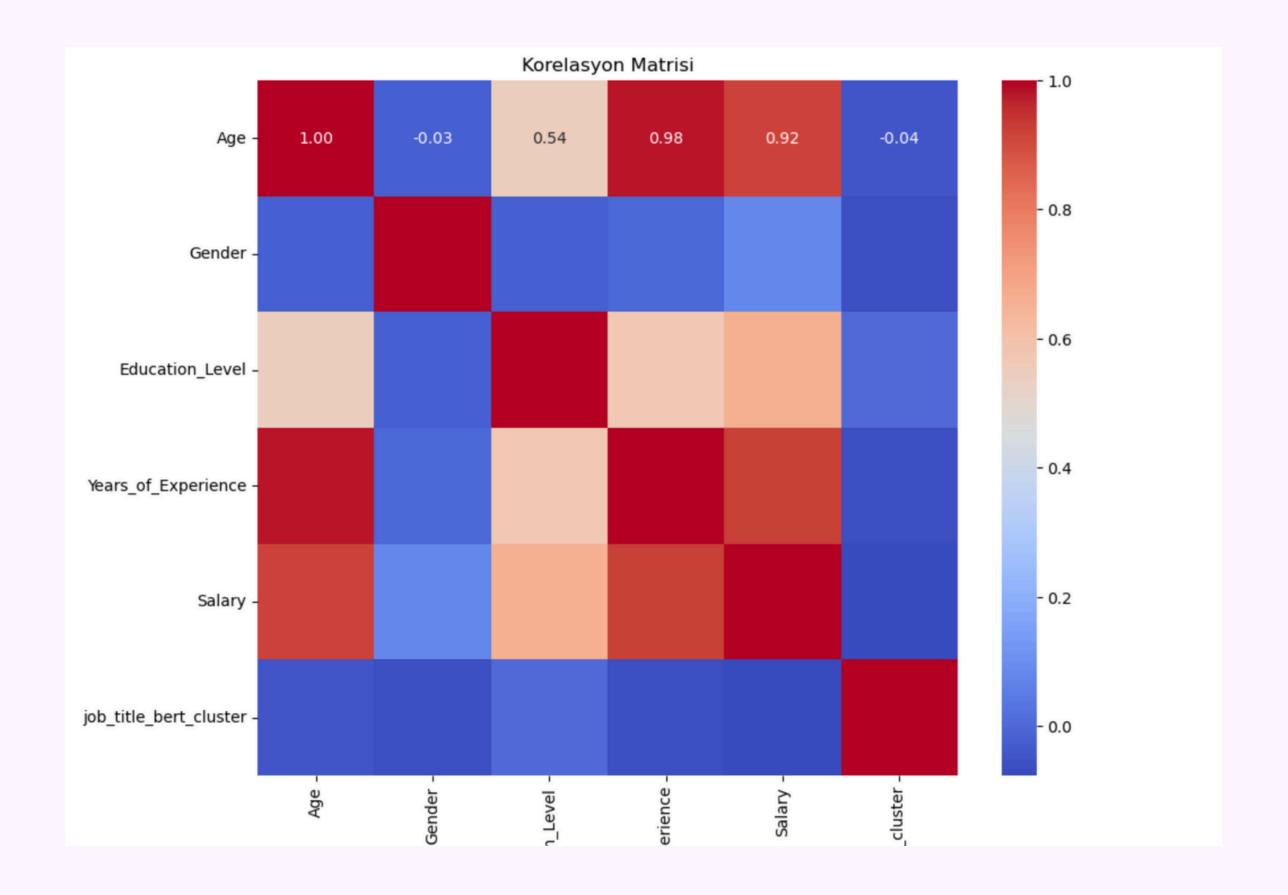






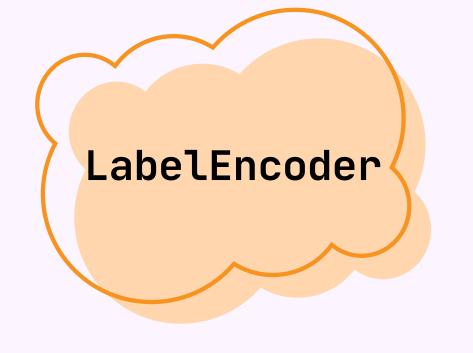






Step 3 MODELLEME

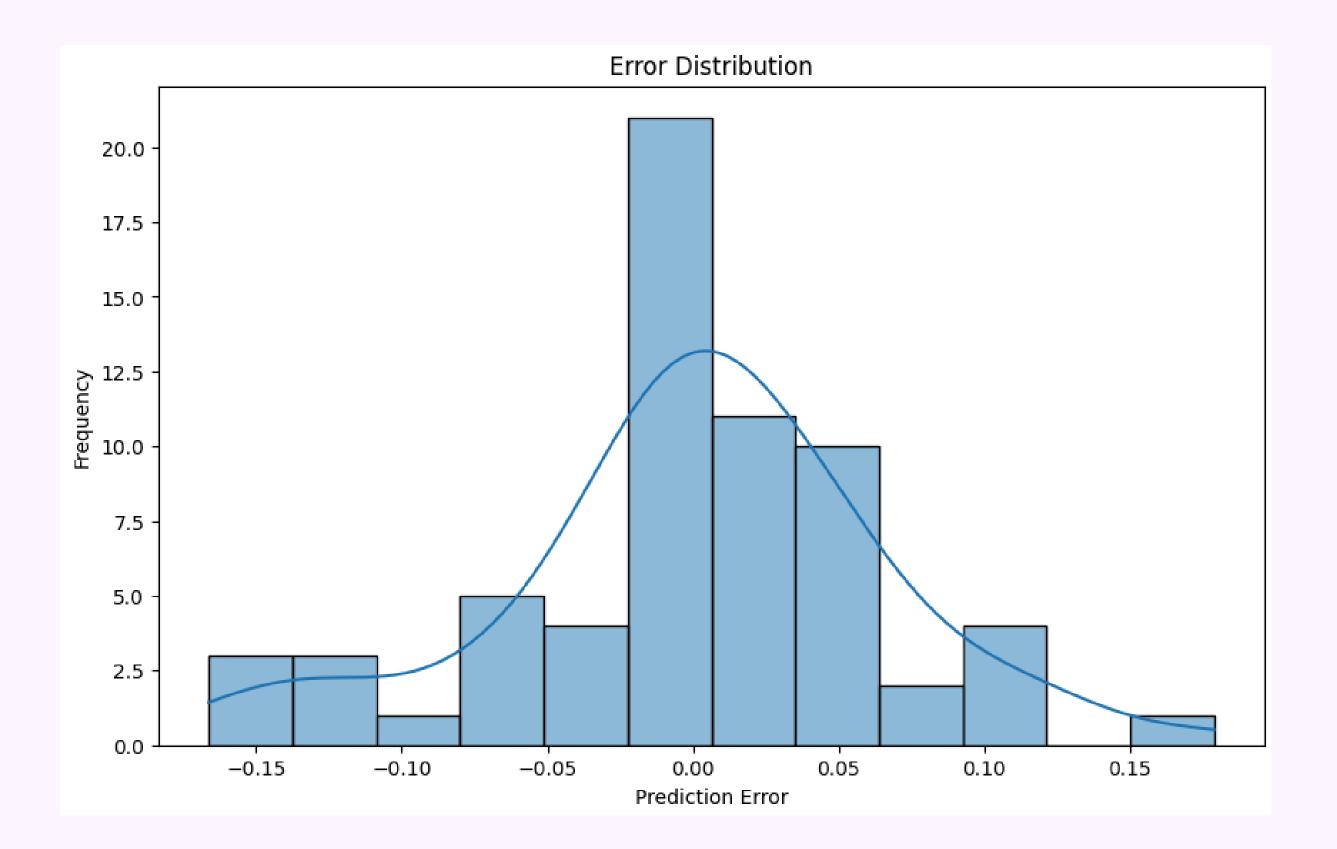
Model	Train MSE	Train R^2	Train Accuracy	Test MSE	Test R^2	Test Accuracy	CV Mean MSE	CV Mean R^2	Fit & Predict Time
Linear Regression	0,004616	0,883585	0,883585	0,00414	0,863468	0,863468	0,005502	0,854744	0,005534
Decision Tree	0,001168	0,970535	0,970535	0,005038	0,833851	0,833851	0,007652	0,798539	0,002068
Random Forest	0,001609	0,959426	0,959426	0,004585	0,848792	0,848792	0,006463	0,831584	0,090306
Support Vector Regre	0,006846	0,827334	0,827334	0,006872	0,77336	0,77336	0,007176	0,811174	0,005641
K-Nearest Neighbors	0,005136	0,870471	0,870471	0,010254	0,66184	0,66184	0,008842	0,768333	0,004515
XGBoost	0,00118	0,970235	0,970235	0,004521	0,850895	0,850895	0,007305	0,80801	0,076865

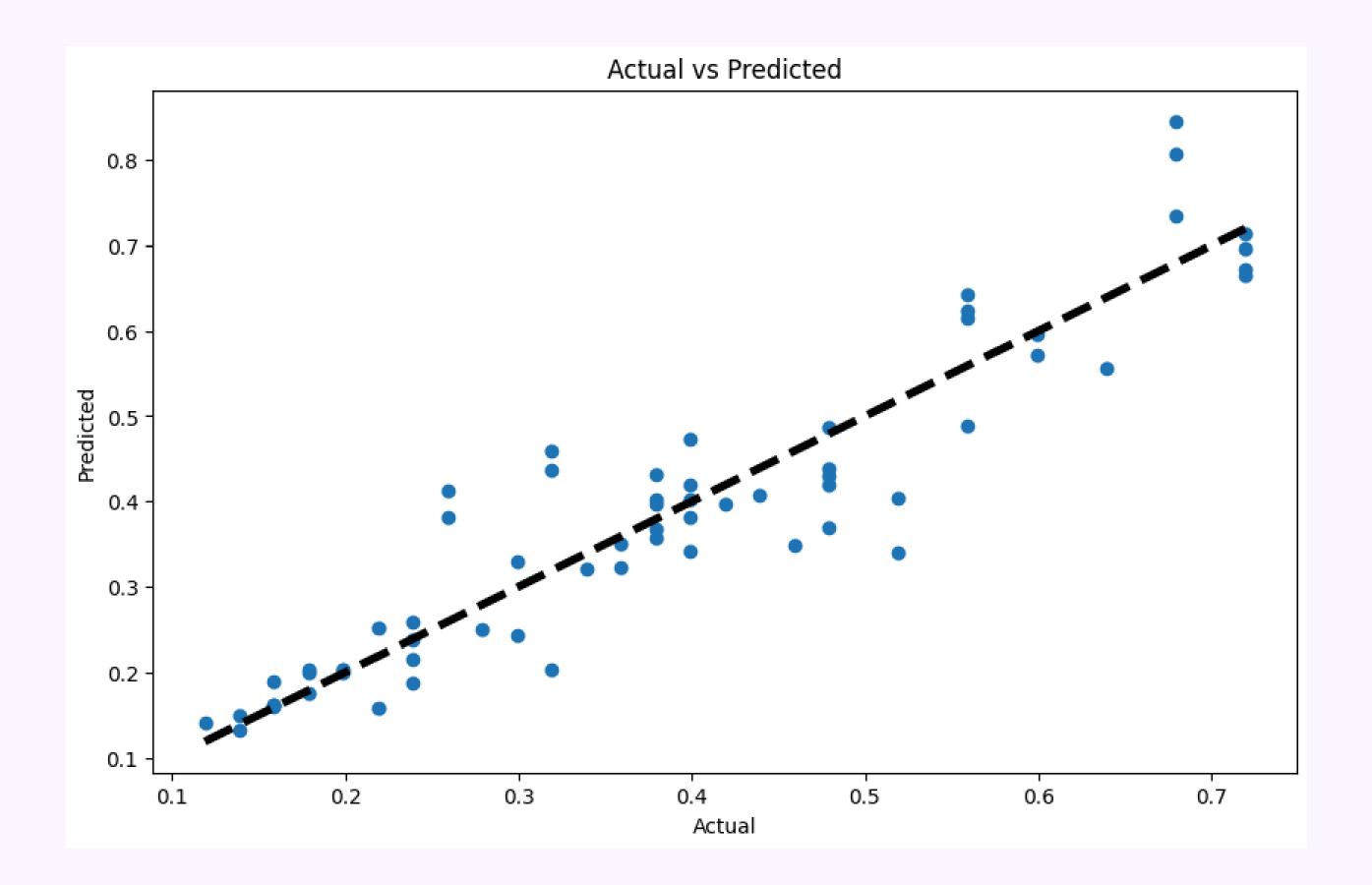






86,34



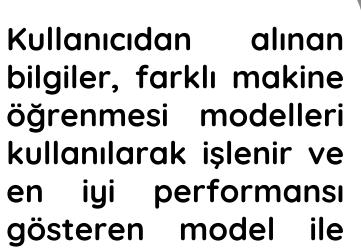


Step 4

WEB ENTEGRASYONU

Bu proje, Flask kullanarak geliştirilmiş bir web uygulamasıdır.

Uygulama, kullanıcıların belirli bilgiler girerek maaş tahmini yapabilmelerini sağlar.



maaş tahmini yapılır.





PROJEYE GENEL BAKIŞ

