



AL NASHI TRANSPORTATION CHARGE PREDICITON

MACHINE LEARNING



SUBMITTED BY :

MUHAMMED SAVAD K


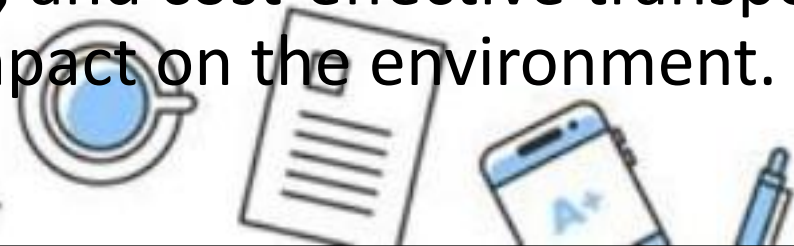
DATA SCIENCE

MACHINE LEARNING MINI PROJECT





AL NASHI

- Al nashi is currently leading transportation company in saudi arabia
 - Al Nashi is company dedicated to providing efficient and reliable transportation solutions. With years of experience in the industry, we have built a reputation for excellence, serving our clients with utmost professionalism and delivering on our promises.
 - At Al Nashi, our mission is to streamline transportation services and enhance connectivity, ensuring seamless movement of people and goods. We strive to exceed our clients' expectations by providing safe, timely, and cost-effective transportation solutions while minimizing our impact on the environment.
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Description

- In this project, the goal is to develop a machine learning model that can predict transportation charges based on various factors. The model will take into variable such as Destination, vehicle type, shipment type, and any other relevant features. By analyzing historical data, the model will learn patterns and relationships to make accurate predictions on transportation charges. This prediction can be valuable for logistics companies, freight forwarders, or businesses that frequently ship goods and need estimates for budgeting and planning purposes.



About AI **Nashi** Transportation Data Set

- AI nashi transportation data set in which we have different attributes for predicting transportation charges
- we will calculate the charges depends on 1300 observations and 3 attributes

Feature names:

- Date, From, Destination, Vehicle type, owner, drivename, charges
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graph TD; A[Data collection] --> B[Data preprocessing]; B --> C[Data visualization]; C --> D[Model selection]; D --> E[Model evaluation]; E --> F[Model deployment];
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Data collection

Data preprocessing

Data visualization

Model selection

Model evaluation

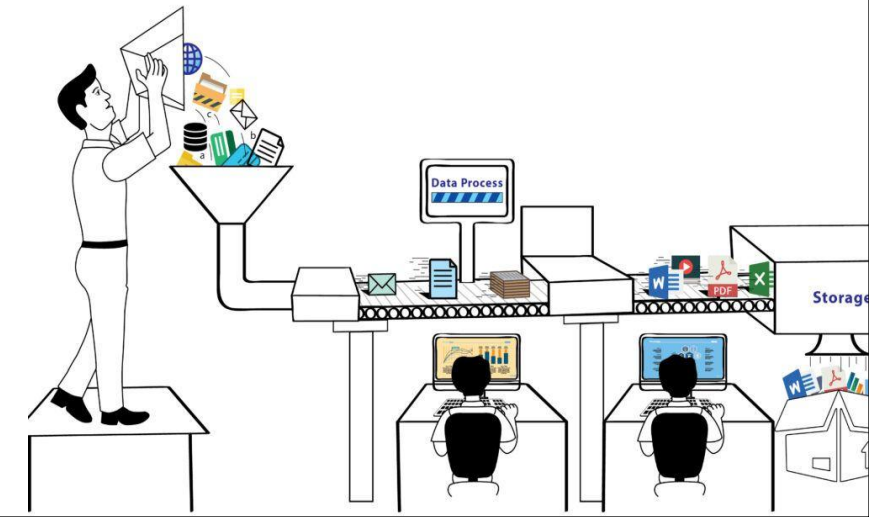
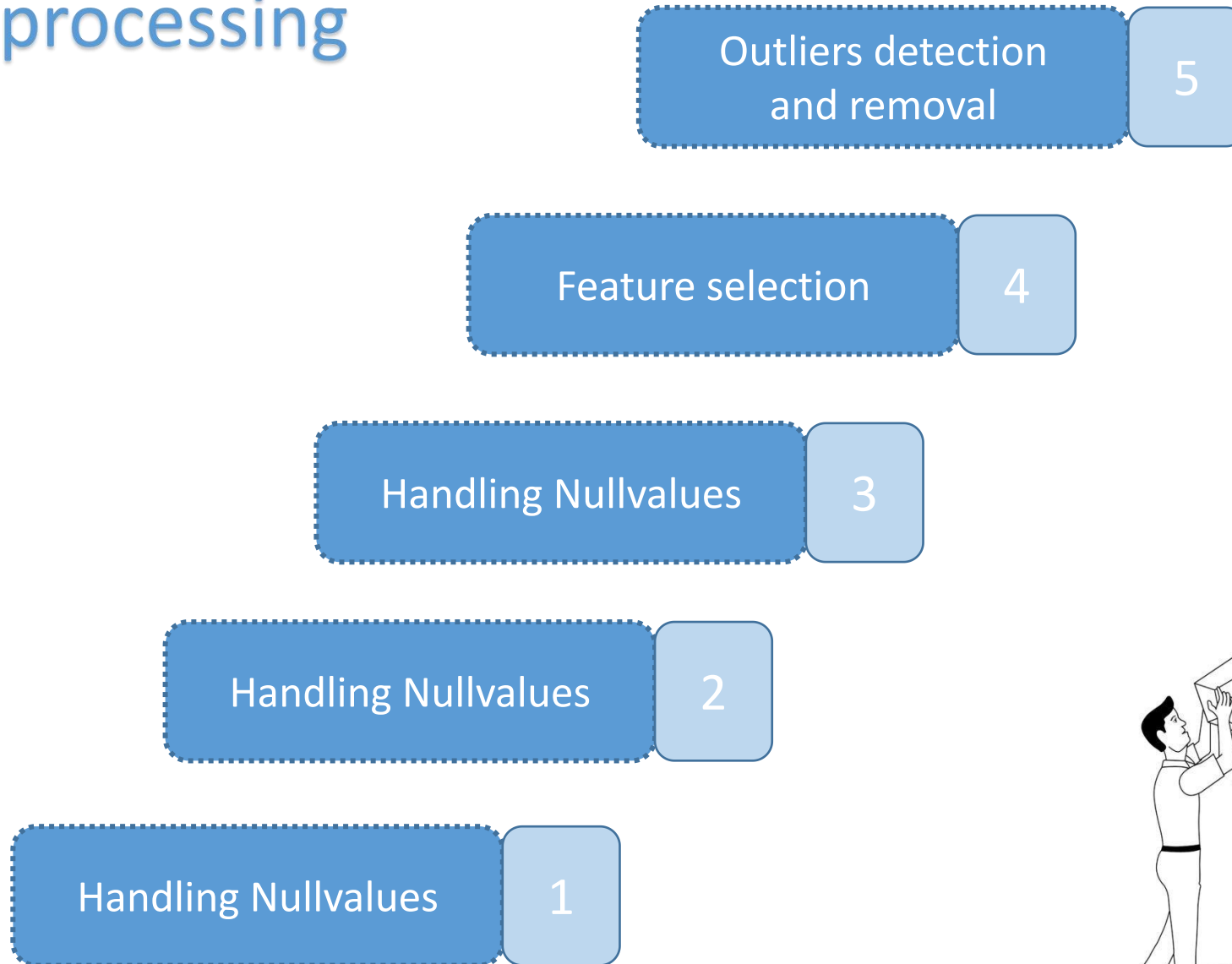
Model deployment

Data Collection

collected data from Al nashi transportation company

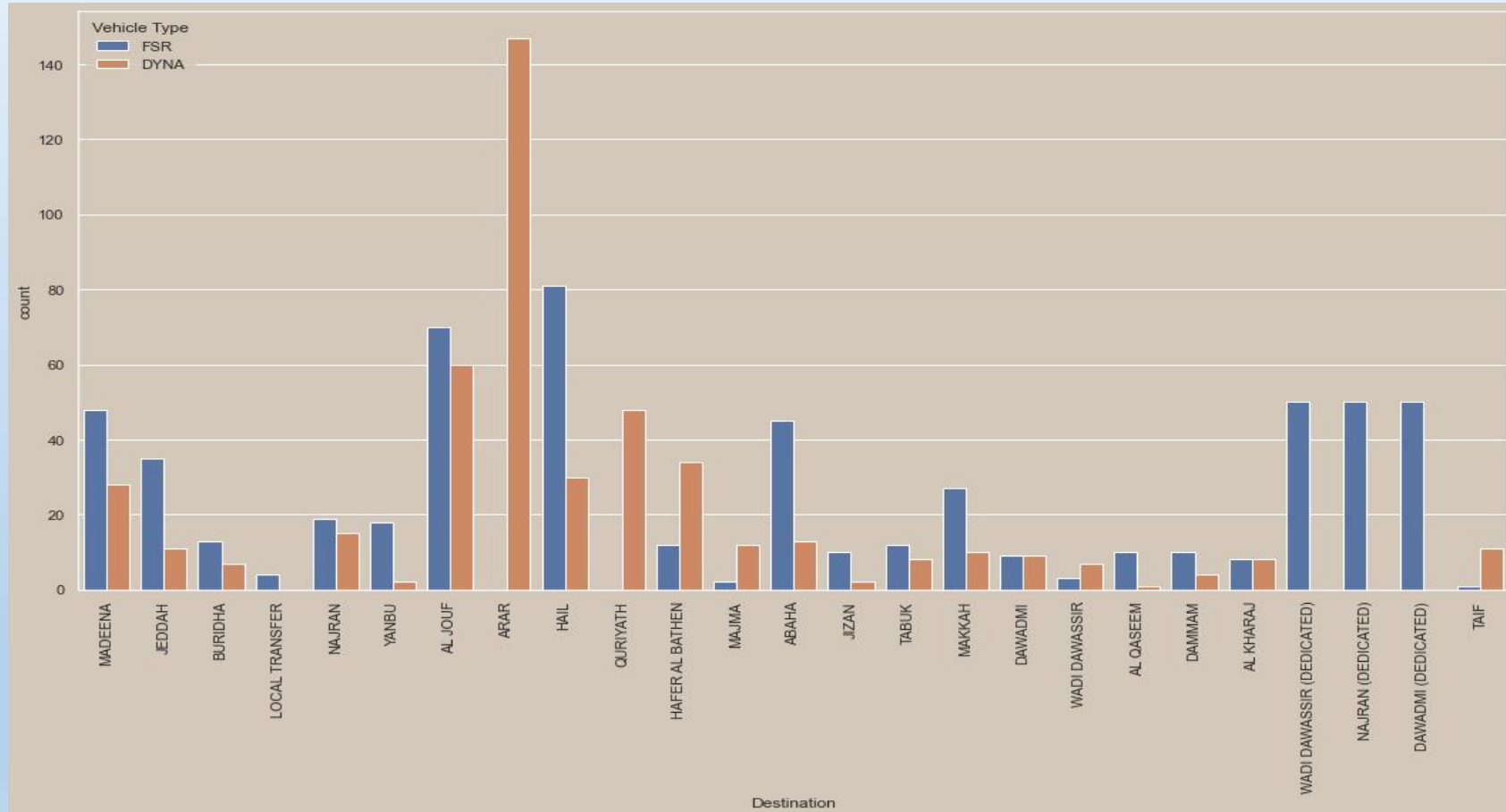
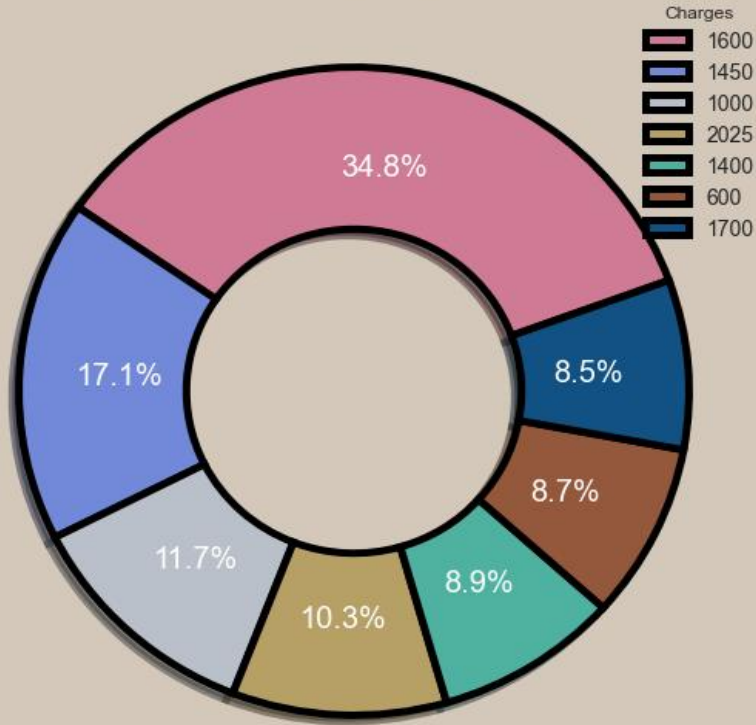
1	Date	From	Destination	Vehicle Type	Driver name	type	Owner	Charges
1	26/05/2021	RIYADH	AL JOUF	DYNA	AL NASHI 8504 (AKTHER)	NaN	AKTHER	1600
2	26/05/2021	RIYADH	AL KHARAJ	DYNA	AL NASHI CO 4950 (M ALI)	NaN	ALI	450
3	26/05/2021	RIYADH	JEDDAH	DYNA	JAMSHI	SPCL	SAIFULLAH	1200
4	26/05/2021	RIYADH	JEDDAH	DYNA	JAMSHI	SPCL	MAJEED	1300
5	26/05/2021	RIYADH	HAIL	FSR	SUHAIL	NaN	RAFIUDHEEN	1450

Data preprocessing

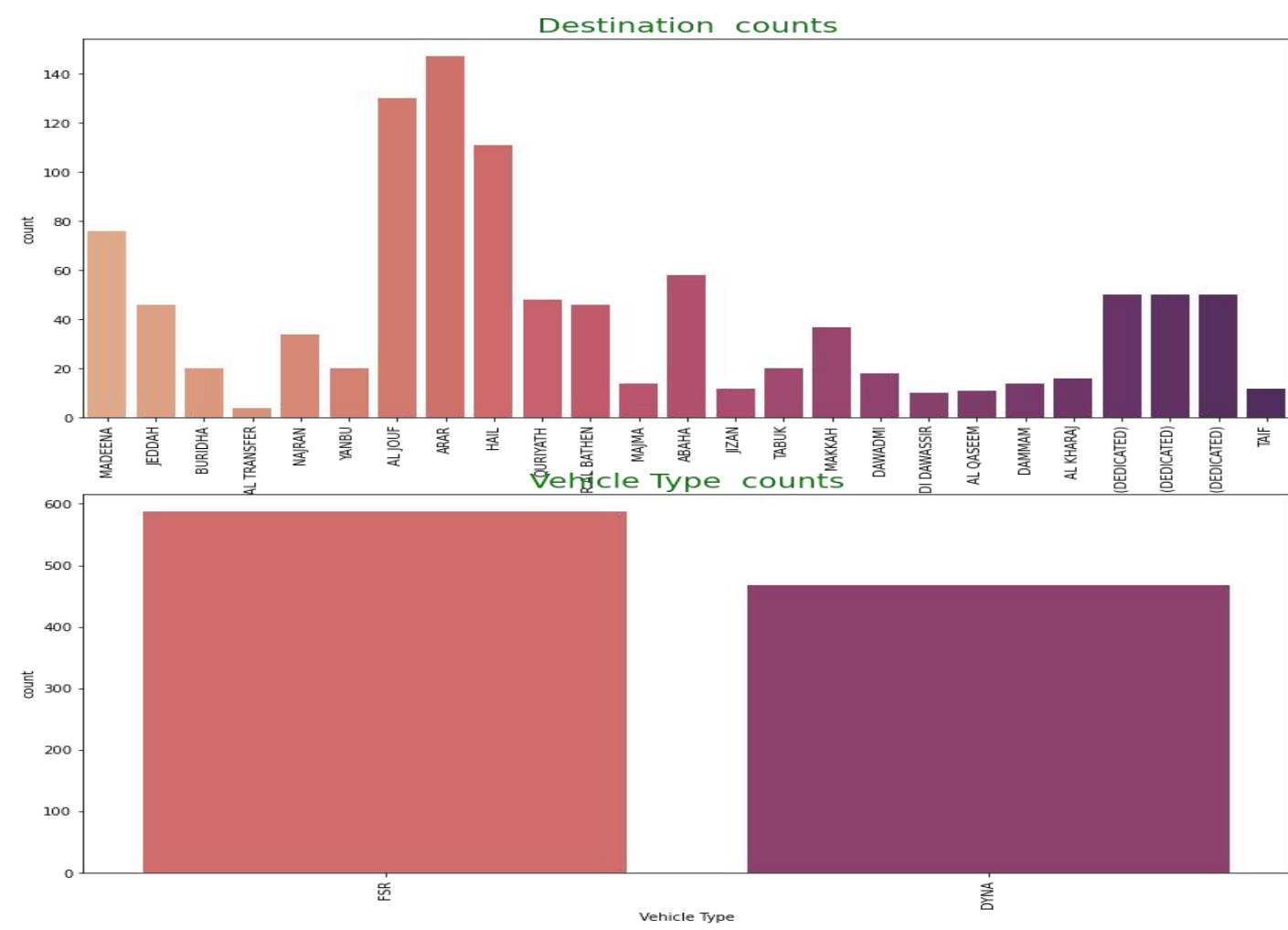
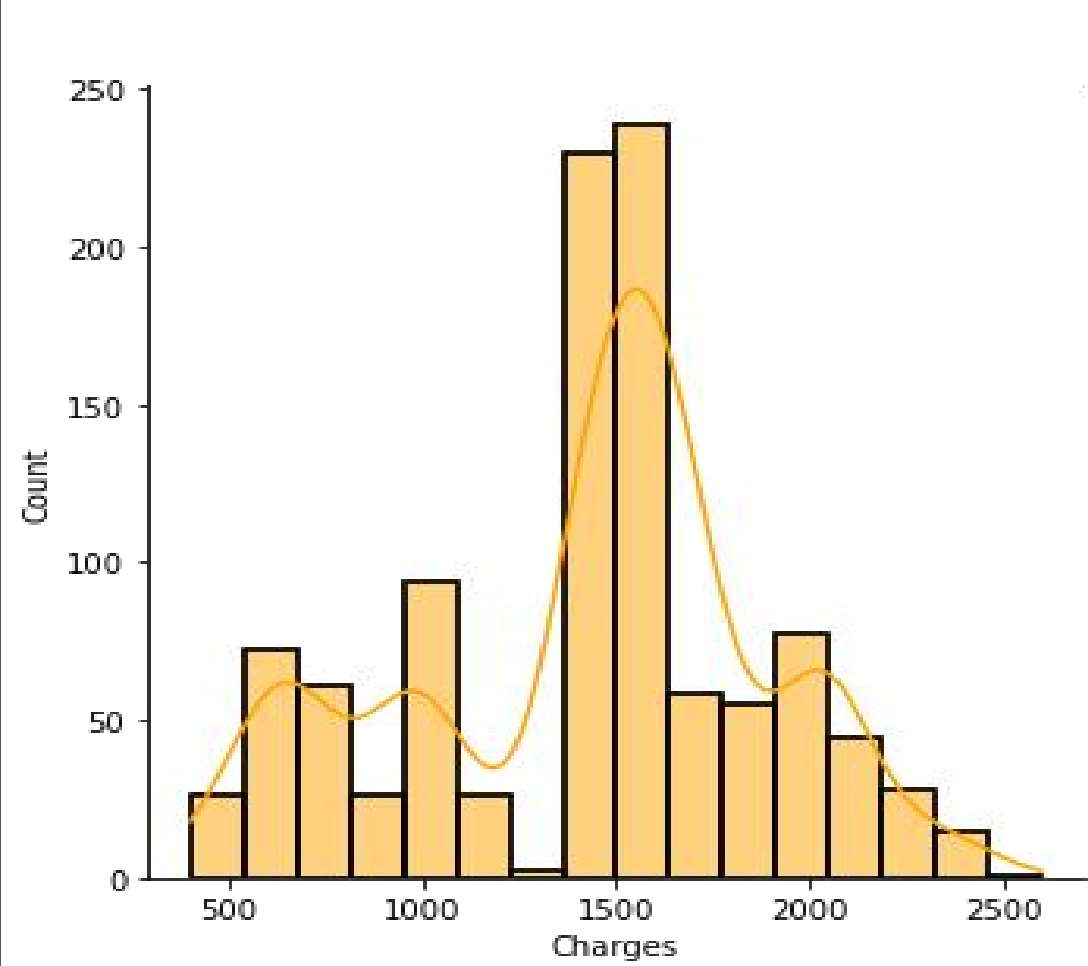


Data visualization

Top 7 charges



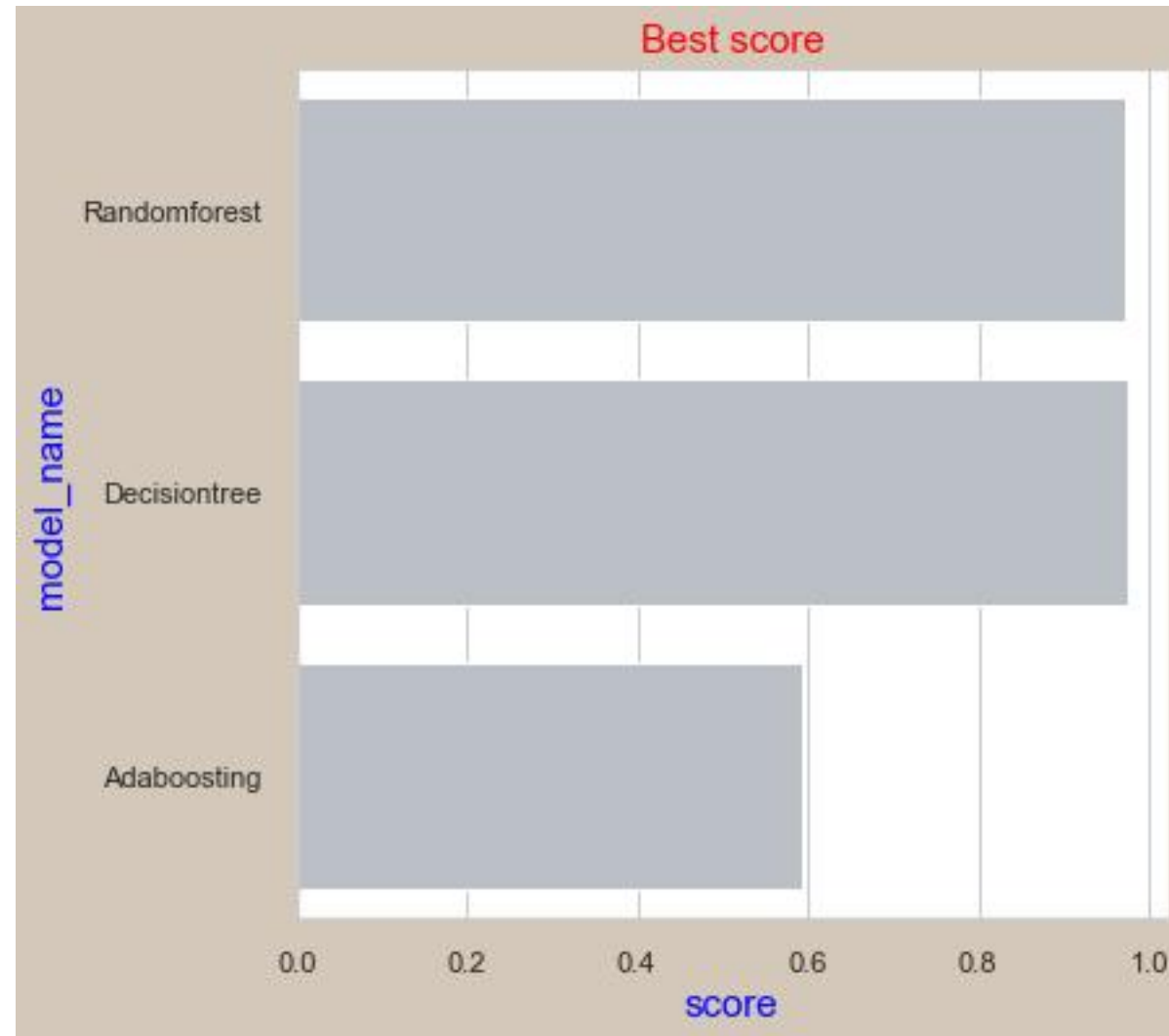
CONT:



Model selection&training

- Here iam Using hypertuning for selecting best model
- Here RandomForestRegressor and DecsiontreeRegressor both are giving good scores and i randomly selected RandomForestRegressor
- After that training the model and taking score

Model comparison



Model Deployment

- Here model Deployment using Django Frame work
- Django is a popular python frame work f
- we can create website using Django

Other links:

<http://localhost:8888/notebooks/1%20%20Techols%20data%20science/projects/projects/Transpotation.ipynb>

A decorative border surrounds the central text, featuring various office-related icons in blue and black outlines. In the top right, there is a laptop, a USB drive, and a small document icon. In the bottom right, a blue folder is visible. Along the bottom edge, from left to right, there is a coffee cup, a document with horizontal lines, a smartphone displaying 'A+', and a pen. On the left edge, a calculator and a paperclip are partially visible.

THANK YOU FOR YOUR ATTENTION