

**MSc in Data Science**

**Deree The American College of Greece**

Applied machine learning

**- Final Report -**

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Introduction

Machine learning, a subfield of artificial intelligence, allows computers to learn from experience without explicit programming. It involves training systems to identify patterns and make predictions using datasets and algorithms. Key categories include supervised learning, unsupervised learning, and reinforcement learning, with clustering, classification, regression, and prediction being popular techniques (Bell, 2022).

Clustering, an unsupervised learning technique, groups similar data points to identify patterns or relationships. It is useful for client segmentation, image processing, and anomaly detection (Xu & Wunsch, 2005). Classification, a supervised learning technique, predicts categories based on input features and is applicable to spam detection, sentiment analysis, and medical diagnosis. Regression, also supervised, predicts continuous values based on input features and is used in stock price prediction, sales forecasting, and weather forecasting. Prediction techniques apply algorithms to forecast future events based on historical data and are employed in demand forecasting, fraud detection, and client churn prediction (Tassa et al., 2014).

The aim of this report is to explore different types of machine learning techniques in order to address three machine learning problems (market segmentation analysis, prediction of house prices and prediction of annual income of a person). The evaluation of the techniques is an important factor analyzed in this report, in order to decide which is the best model for each problem.

# Clustering: Market Segmentation: Unsupervised learning

## Data source

The source of the data set used for the analysis is presented below:

[UCI Machine Learning Repository: Wholesale customers Data Set](https://archive.ics.uci.edu/ml/datasets/Wholesale+customers)

## Description of data

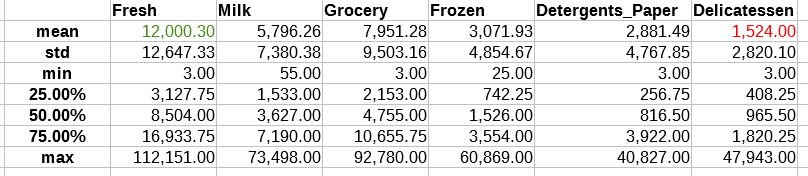
The data set includes information about the annual spending on different product categories and it refers to clients of a wholesale distributor.

It consists of 8 columns in total. The 6 of them represent the different categories of products such as fresh, milk, grocery, frozen, detergents\_paper, delicatessen, 1 column represents the channel, that refers to the method or platform through which the annual spending were made and 1 column represents the region of these transactions. Also, the dataset has 440 rows, that summarize the annual spending per client in each category.

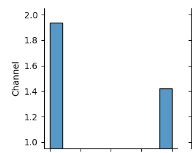
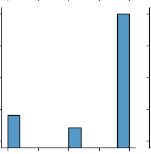
The 6 columns (fresh, milk, grocery, frozen, detergents\_paper, delicatessen) consist of continuous numerical data (amount of money in monetary units (m.u.)) and the two (channel, region) include categorical data, as per below:

* CHANNEL: Channel – Horeca (Hotel/Restaurant/Café) (1) or Retail channel (2)
* REGION: Lisnon (1), Oporto (2) or Other (3)

In the below table, some basic statistics for the numerical data are provided:



For the categorical data, in the below charts, the distribution of the data points within the different classes is presented:

## Data pre-processing

Data preprocessing is a crucial step in any machine learning project. It involves cleaning and preparing the data so that it can be properly analyzed and used to train machine learning models.

Steps followed:

1. Handling missing values: no missing values were detected in the data set.
2. Data standardization: StandardScaler () was used for transforming the data in order to have mean=0 and std=1, for better analysis of the data from the algorithm.
3. Split of data: the column “Region” was used as a target variable for the classification and it was excluded from the analysis. The rest of the columns (saved in a X variable) were used for the classification and the clustering.
4. Feature selection: mutual\_info\_classif (X,y) was used for each feature to identify the most informative features for predicting the target variable. The scores indicated that some features are more informative than others and might be beneficial to focus on these features when building the classification model.

The results from the mutual information implementation on the data set are summarized below:

Graphical user interface, text, application, chat or text message

Description automatically generated

1. Split of data into training and test set: train\_test\_split(X, y, test\_size=0.2, random\_state=42) was used, determining the size of the test set to 20% of the whole sample, with random\_state = 42 in order to get the same train and test sets across different executions.

## Algorithm description

For this problem, were used three classifier models to predict the column “Region” of the clients: Decision Tree, Random Forest, and Neural Network.

In addition, two clustering techniques were applied to the dataset: K-means clustering and Agglomerative (hierarchical) clustering. The performance of each technique was evaluated using the silhouette score.

### Optimal number of clusters and evaluation of performance

The silhouette score was used for the evaluation of the performance of the model. This score ranges from -1 to 1, with a score of 1 indicating that a data point is very similar to its own cluster and very dissimilar to other clusters.

According to the silhouette score, the optimal number of clusters for this particular dataset is two -6- for the K-means and -2- for the Agglomerative clustering. However, knowing that there are three Regions where clients belong to, as optimal number of clusters is considered the three. The same number of clusters was also used for applying the agglomerative clustering.

The silhouette scores for K-means and Agglomerative clustering are presented below:

**K-means Silhouette Scores:**

Clusters 2: 0.4446

Clusters 3: 0.4392

Clusters 4: 0.4450

Clusters 5: 0.4386

Clusters 6: 0.4465

Clusters 7: 0.4235

Clusters 8: 0.4091

Clusters 9: 0.3823

**Agglomerative Clustering Silhouette Scores:**

Clusters 2: 0.4406

Clusters 3: 0.4071

Clusters 4: 0.4117

Clusters 5: 0.4031

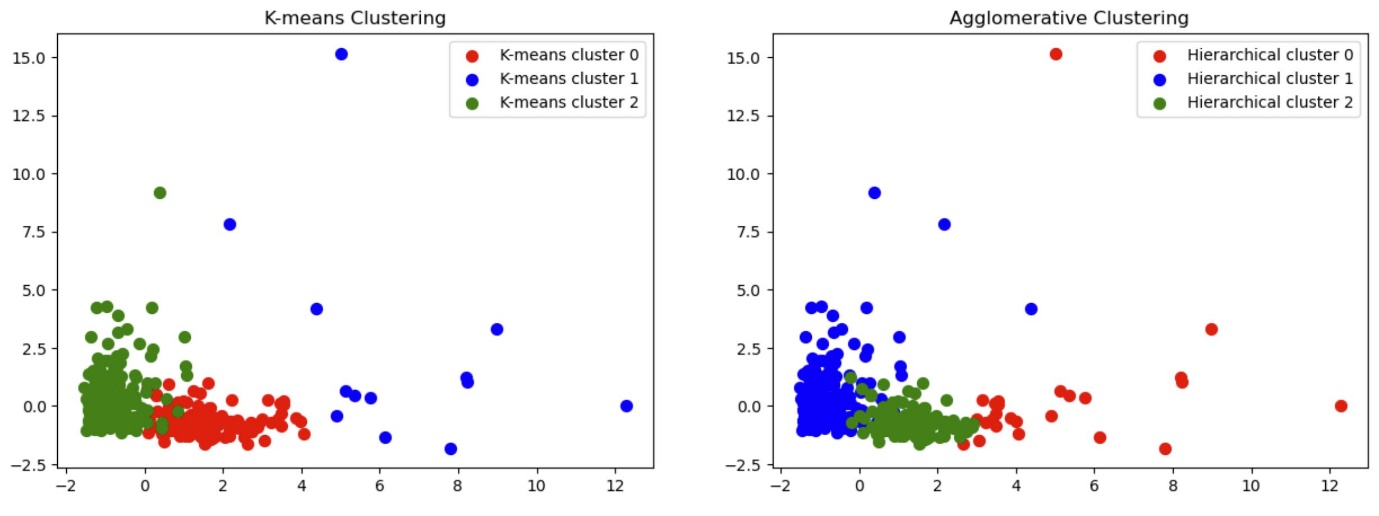
Clusters 6: 0.4021

Clusters 7: 0.4033

Clusters 8: 0.4132

Clusters 9: 0.4083

A visual representation of the created clusters was performed for both techniques, in order to check the distribution of the data points into the created clusters, as seen below:



### Classifier Performance Evaluation

The classifier models’ performance was evaluated using F1 score, precision and recall. According to the following results, the Random Forest classifier outperformed both the Decision Tree and Neural Network classifiers based on the aforementioned metrics.

|  |  |  |  |
| --- | --- | --- | --- |
| **Classification methods** | **Metrics** | | |
| **F1 score** | **Precision** | **Recall** |
| **Decision Tree** | 0.6611184778586406 | 0.7281468531468532 | 0.6136363636363636 |
| **Random Forest** | 0.756818181818182 | 0.704016913319239 | 0.8181818181818182 |
| **Neural Network** | 0.756818181818182 | 0.704016913319239 | 0.8181818181818182 |

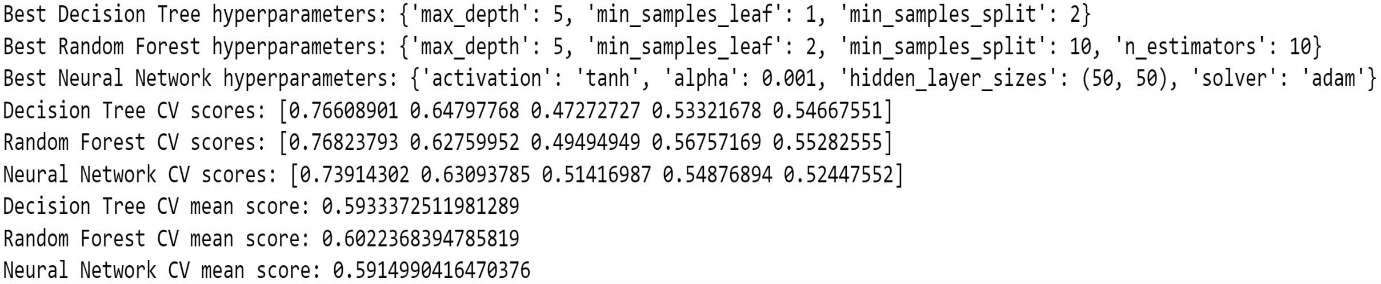
### Clustering Performance Evaluation

According to the silhouette scores, both K-means and agglomerative clustering methods have similar silhouette scores indicating that their performance in clustering the data was comparable.

* Silhouette score for k-means: 0.43916005773275374
* Silhouette score for agglomerative clustering: 0.407084011561323

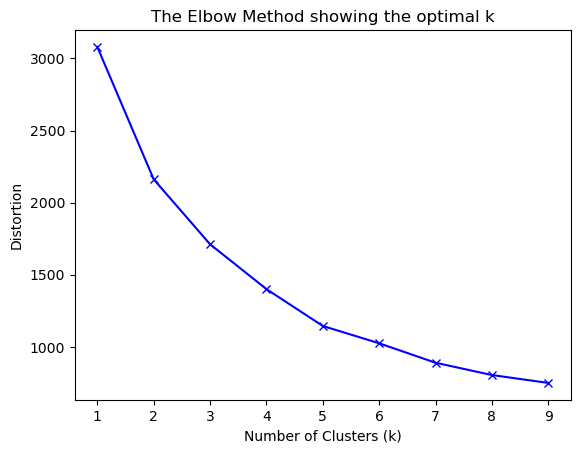
### Hyperparameter Tuning and Cross-Validation for the classifiers

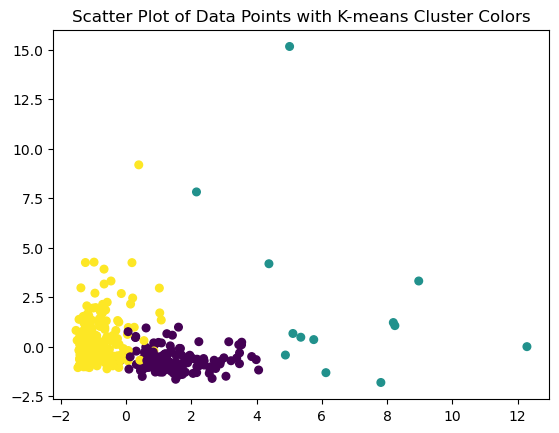
A grid search was performed for each classifier model to find the best hyperparameters, followed by 5-fold cross validation to validate their performance. The mean F1 scores from cross-validation were used to compare the classifiers’ performance. The results of this process are summarized in the figure below.



### Characterization of clusters

Pair plots and box plots for both K-means and Agglomerative Clustering methods, elbow method plot for K-means clustering and scatter plot of data points with cluster colors (after PCA) are represented below for better understanding of the data.





For the characterization of each cluster created by each clustering technique, a box plot per cluster was created, as shown in the below figures:

Chart, box and whisker chart

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Chart, box and whisker chart

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Chart, box and whisker chart

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Additionally, a decision tree was created for the investigation of the characteristics of each cluster:

Diagram

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### Conclusions

* Concerning the different classifiers, the Random Forest classifier performs better that the other two, the Decision Tree and the Neural Network classifier, based on the F1 score, precision, and recall. As a result, this is more reliable in predicting the “Region” of customers based on their spending habits.
* Both K-means and Agglomerative clustering can be used effectively for clustering, as they have similar silhouette scores. The score is relatively big, indicating that the three clusters could be representative of the distribution of the data points and that the model performed relatively well on segmenting the clients of the wholesale distributor into Regions.
* By focusing on the features that are more informative according to the mutual information scores (Milk and the Detergents\_paper columns), it is feasible to improve the classifier models and their performance.
* The visualizations of box plots per cluster for both clustering methods indicate that the second cluster includes the most outliers in the majority of the analyzed features. This observation, in addition to the observation that the optimal number of clusters is two according to the silhouette score, might indicate that the second cluster could be omitted and the clustering to two clusters might be more appropriate for the data set.

Also, comparing the two techniques, it seems that the **first cluster** of the **K-means** clustering is more similar to the **third cluster** of the **Agglomerative** clustering according to the distribution of the data points within the classes (similar mean, max, min, std) and the third cluster of the K-means clustering is more similar to the first cluster of the Agglomerative clustering, accordingly.

For the most informative features (Milk and Detergent\_paper) the results are summarized below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **K-means** | | | **Agglomerative Clustering** | | |
|  | **median** | **50% of data** | **max value** | **median** | **50% of data** | **max value** |
| **Milk**  **1st cluster** | 0.25 | 0.1-0.75 | 1.5 | 2.5 | 2-3.1 | 5.5 |
| **Detergent\_paper 1st cluster** | 0.5 | 0.2-0.9 | 2.25 | 3 | 2-4.1 | 5.1 |
| **Milk**  **3rd cluster** | 2.7 | 2.5-5 | 6.2 | 0.25 | 0.1-0.75 | 1.5 |
| **Detergent\_paper 3rd cluster** | 4 | 3.5-4.9 | 5.1 | 0.5 | 0.2-0.9 | 1.9 |

# Regression

## Data source

The source of the data set used for the analysis is presented below:

<https://www.kaggle.com/datasets/camnugent/california-housing-prices?fbclid=IwAR125Veohw-zpmmCWRj9_SZ8_zvADMfUy2ji3AKpTe-nIFG9w5RY2aDSm7I>

## Description of data

The data set includes information about the houses in a given California district and some summary stats about them based on the 1990 census data.

It consists of 10 columns and 20.640 rows in total. The following table describes the content of each column.

|  |  |
| --- | --- |
| **Column** | **Description** |
| 1. longitude | A measure of how far west a house is; a higher value is farther west. |
| 1. latitude | A measure of how far north a house is; a higher value is farther north. |
| 1. housingMedianAge | Median age of a house within a block; a lower number is a newer building. |
| 1. totalRooms | Total number of rooms within a block. |
| 1. totalBedrooms | Total number of bedrooms within a block. |
| 1. population | Total number of people residing within a block. |
| 1. households | Total number of households, a group of people residing within a home unit, for a block. |
| 1. medianIncome | Median income for households within a block of houses (measured in tens of thousands of US Dollars) |
| 1. medianHouseValue | Median house value for households within a block (measured in US Dollars) |
| 1. oceanProximity | Location of the house w.r.t ocean/sea. |

## 

Through the analysis and the applications of multiple regression models, we aim to be able to predict the price of a house that is not listed in our data set based on the multiple features related to the house location and its characteristics.

## Data pre-processing

For the cleaning and the pre-processing of the data set, the below steps were followed:

1. Print some graphs with basic statistics for a quick understanding of the data set
2. Inspect if there are any missing values (only in total bedrooms column) and replace the missing values with the median of the column
3. Keep only the columns that play a role in predicting the price (drop longitude and latitude columns)
4. The ocean\_proximity column includes categorical data. In order to process the information included in this column, one hot encoding is used
5. Define the target column (median\_house\_value) and remove it from the dataframe
6. Split the data into train and test sets (test\_size=0.3)

## Algorithm description

For this problem, a regression analysis was performed, using Linear Regression, Random Forest Regression, and Elastic Net. In order to investigate if the model improves with Regularization, the Lasso and Ridge Regressors were also used, with alpha = 0.5 for both methods.

Additionally, a Grid Search was performed in order to determine the optimal degree for the research of Polynomial Regression. For this reason, Polynomial Regression (1st, 2nd and 3rd degree) was investigated.

In order to confirm if the model performs better with different alpha parameters, an additional search was performed for alpha = [0.001, 0.01, 0.1, 0.5, 1, 10].

To start with, one model was **initialized** for each of the 5 Regressors.

The **fitting** step followed, for the training of the models.

Afterwards, the **predictions** were obtained for each model.

The final step of the analysis was the **evaluation**, which was performed by calculating the R2 scores and the MSE.

For each model, the coefficients and the intercepts of the Regressors were calculated and displayed in order to define the final equation.

## Results

The visual representation of the results is shown below:

Chart, scatter chart

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Chart, scatter chart

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In the below table, the R2 scores and the MSE for each model are summarized:

|  |  |  |
| --- | --- | --- |
|  | **R2 score** | **MSE** |
| **Linear Regression** | 0.65036 | 4836411864.88871 |
| **Ridge Regression** | 0.65039 | 4836759057.38088 |
| **Lasso Regression** | 0.65036 | 4836418987.32281 |
| **Random Forest Regression** | 0.82251 | 3818891751.69774 |
| **Elastic Net Regression** | 0.62475 | 5063640312.02 |

In the below table, the results of the Grid search are presented:

|  |  |
| --- | --- |
|  | **R2 score** |
| **Polynomial Regression (degree 1)** | 0.64102 |
| **Polynomial Regression (degree 2)** | -22296811.52070 |
| **Polynomial Regression (degree 3)** | -658.14822 |
| **Polynomial Regression (degree 4)** | -5421.65924 |

From the results, it is concluded that the optimal degree for the polynomial Regressors is the degree 1, which is the same with the Linear Regression model (R2 and MSE are the almost same).

There are several reasons why a regression model may produce a negative R2 score. One possibility is that the model is misspecified, meaning that it does not accurately capture the underlying relationships between the features and the target. Another possibility is that the data may be noisy or have high variability, making it difficult to accurately predict the target variable.

In any case, a negative R2 score indicates that the model is not useful for making predictions and should be reevaluated or redesigned to improve its performance.

For the different alphas analyzed for the Ridge and the Lasso Regression, the best alpha parameter identified was the value 0.001 (giving the same results with Linear Regression), meaning that no improvement is observed with the regularization.

## Conclusions

Based on the above calculations, the regression model that explains the better the variance of the variables in the data set is the Random Forest Regressor.

There is a linear correlation between the features of the data set.

A Linear Model could explain approximately 65 % of the variance of the data set.

No significant improvement by applying Regularization techniques, such as Lasso and Ridge Regression.

# Predicting outcome

## Data source

The sources of the data set used for the analysis is presented below:

[UCI Machine Learning Repository: Adult Data Set](https://archive.ics.uci.edu/ml/datasets/adult)

## Description of data

The data set includes general personal information about people and the objective is to predict their income. Specifically, this problem aims to predict whether the income is above 50.000$ per year.

There are 14 columns (attributes) in the data set and 48842 rows (inputs).

The attributes are presented below:

age: continuous numerical  
workclass: categorical  
fnlwgt: continuous numerical  
education: categorical  
education-num: continuous numerical  
marital-status: categorical  
occupation: categorical  
relationship: categorical  
race: categorical  
sex: categorical binary

capital-gain: continuous numerical  
capital-loss: continuous numerical  
hours-per-week: continuous numerical  
native-country: categorical

income: continuous numerical

There are three data sets, one for train one for test and one containing the names of the columns.

Since the are many categorical data in the data set, that have to be transformed to numerical in order to be used in Python, both are loaded for preprocessing.

## Data pre-processing

Steps followed:

1. Read and clean the adult.data
2. Read and clean the adult.test
3. Read the data set adult.names which contained additional column names, which were not present in the other two data sets. So we observed the categorical columns that needed to be hot encoded and chose “by hand” these columns, as per below:

column\_names = ['age', 'workclass', 'fnlwgt', 'education', 'education\_num', 'marital\_status', 'occupation', 'relationship', 'race', 'sex', 'capital\_gain', 'capital\_loss', 'hours\_per\_week', 'native\_country', 'income']

1. Drop all the columns in the adult.names data set that were not included in the above list
2. Print some basic info, descriptive statistics
3. Create two new dataframes with the train and the test data, after the cleaning
4. Use one hot encoding for handling of the categorical data
5. Separate the features (X) and the target (y) in both datasets
6. The target feature was in text format, so we used a function to transform it to 2 binary values, which define the two classes ('>50K': 1, '<=50K': 0)

## Algorithm description

For this problem, Logistic Regression, Random Forest and K-Nearest Neighbor classifier was used.

Random Forest Classifier method applies multiple decision tree classifiers on different subsets of the whole data set and, by averaging the results of each iteration, improves the model and prevents over fitting.

Firstly, one model was **initialized** for each of the 3 classifiers.

The **fitting** step followed, for the training of the models.

This step was applied only on the adult.data data set.

Afterwards, the **testing** was made on the adult.test data set and the **predictions** were obtained for each model.

The evaluation metrics used for this analysis is the Accuracy, the precision, the recall and the F-1 score.

The confusion matrix for each model was depicted and the feature importance of each feature (for the Random Forest model) was plotted in a bar chart.

## Results

The results obtained after the evaluation are summarized in the below table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **Logistic Regression** | **Random Forest** | **K-Nearest Neighbor** |
| **accuracy** |  | 0.793 | 0.845 | 0.769 |
| **precision** | **0 class** | 0.8 | 0.88 | 0.81 |
| **1 class** | 0.71 | 0.72 | 0.55 |
| **recall** | **0 class** | 0.96 | 0.92 | 0.91 |
| **1 class** | 0.27 | 0.62 | 0.33 |
| **f-1 score** | **0 class** | 0.88 | 0.9 | 0.86 |
| **1 class** | 0.39 | 0.66 | 0.41 |

The confusion matrices for each model are depicted below:

Chart, treemap chart

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Chart, treemap chart

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Chart, treemap chart

Description automatically generated

In all the confusion matrices we see:

* To the top left, the true negative values are depicted, meaning the correctly predicted values for the 0 class. For this observation, the Logistic Regression performs slightly better that the other two classifiers.
* To the top right, the false positive, meaning the wrong predictions on the 0 class, which were predicted as 1 class. In this case, again the Logistic Regression performs better than the other two classifiers.
* To the bottom left, the false negative, meaning the wrong predictions on the 1 class which were predicted as 0 class. The **Random Forest** classifier has a significant better performance.
* To the bottom right, the true positives, meaning the correctly predicted values for the 1 class. Again, the **Random Forest** classifier skyrockets the correct predicted results, against the other two classifiers.

From the below ROC curve, the finding that Random Forest is the best classifier is confirmed:

Chart, line chart

Description automatically generated

Also, in the below diagram, the importance of each feature for the Random Forest classifier is plotted:

Chart, funnel chart

Description automatically generated

In the Random Forest model, feature importance is calculated based on the average impurity decrease across all decision trees in the forest. Impurity is a measure of how mixed the classes are within a node, and the decrease in impurity is an indicator of how much a feature contributes to making the split more "pure" or homogenous.

From the bar chart, it is concluded that the features that play a key role in the prediction of the outcome are firstly the age and the fnlwgt and the others follow.

## Explainable AI (XAI)

### SHapley Additive exPlanation (SHAP)

SHAP, introduced by Lundberg and Lee in 2017, is a method for explaining black box machine learning models by quantifying each input feature's contribution to the final prediction. It utilizes cooperative game theory, specifically Shapley values, to calculate feature contributions.

The benefits of SHAP include its intuitive nature, helping users understand factors driving predictions, particularly in high-stakes applications like healthcare or finance. However, limitations include computational expense and potential incompleteness due to disregarding feature interactions.

In summary, SHAP helps users understand model decisions by quantifying feature contributions, but should be used alongside other interpretability methods.![Graphical user interface, diagram, application

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA8ADwAAD/4REARXhpZgAATU0AKgAAAAgABAE7AAIAAAASAAAISodpAAQAAAABAAAIXJydAAEAAAAkAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRoZW9kb3JhIEJvdHNpYWxhAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMxOAAAkpIAAgAAAAMxOAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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OCPzP51q0UUAc0/wAPPCj6j9ubRLY3Bk8wtg4LeuM4/SukVVRQqKFUDAAGAKWigCG8tIL+zmtLyJZoJkKSRuMhlIwRWVZ+DvD9ho0+k2ulwR2Nx/rYcEh/r37Vt0UAVLjS7O50h9Mmt0eyeHyGgP3SmMbfpjioLzw/pWoaONKvbGKaxChRCw4AHTFaVFAGHong/QPDskkuj6XDayScM65Zj+JJrb/ClxRigDH1rwpofiPyzrWmwXbR52M4IYfiOaTQ/COheGvMOh6ZDaNIfnZASzfUnmtmigCpBpdnbajc38FvHHdXQUTSgcyBc7c/TJ/Oki0qyh1afUoraNbydFjlmA+Z1HQGrlFAHOJ4B8MLrR1VdGtxeeYZPMwfvH+LHTP4VS8W+C49Q8D6xo3h62trabUSXYMSqvIcAsTz1AFdhRQBzWkeA/Dul3kWoQaNaw3yD/WLltpxzjPA/Ktm+0uy1Ca1lvLZJpLSXzoGYcxvjG4e+CauUUAYuueE9E8SPE+tadDdPF9xmyCPbIIoXRV0Lw/PaeE7O1tptpMKPkIW7bjya2sUYoA4fwr4Z1x/E9x4n8aGz/tHyVtbW3s2LxwRjkncQMkknt0xXbj3pcUYoAZLGk0LxSqGRwVZT3BqtpelWOi6fHY6VbR2trEMJFGMBauYooA5678B+GL7Vzqd1o9vLeFg5kOfmYdCRnBNXl8O6Sn24rYQj+0cfa8L/rsKF5/AAfhWnRQBRTRdOj0QaOtnENOWLyRbYygTGNv0rKsfAPhfTbW7t7PRbaOK8QJOvJ8xR0ByeldHRQBlar4Z0fWtNjsNUsIrm2ix5cbg/JjpgjkU3RPDGjeHI2XRdPhtA5yxQEk/iea16KAOa1L4e+FdXv5LzUdGt5p5eZG+Zd/1AIBrZXSrNdMOnLbRrZmMxeQB8u0jGKuUUAV9P0+10uwhstPgSC2hXbHGg4Ue1WKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

### Explanation of results

In order to obtain results regarding the way the model works, the SHAP library was installed and the SHAP values were calculated.

A picture containing graphical user interface

Description automatically generated

In the summary plot, each dot represents a single sample, with the position of the dot on the x-axis indicating the impact of the feature on the prediction, and the color indicating the value of the feature for that sample. Features that are associated with higher predicted outcomes are shown in red, while features that are associated with lower predicted outcomes are shown in blue. The plot can be used to identify which features are most important to the model's predictions and to understand the direction and magnitude of each feature's effect.

The direction of the SHAP value is also important. A positive SHAP value indicates that the feature is associated with higher predicted outcomes, while a negative SHAP value indicates that the feature is associated with lower predicted outcomes.

It's also important to look at the distribution of SHAP values across the feature values. If the distribution is uniform or random, it may indicate that the feature is not important to the model's predictions. However, if the distribution is skewed or concentrated in certain regions of the feature space, it may indicate that the feature is highly informative.

In this plot (summary plot), the importance of feature is being predicted based on the instance 0.

The instance 0 is the first row of our data set and more specifically, in the first 100 rows of our data set.

Chart, scatter chart

Description automatically generated

The dependence plot shows the exact relationship of a specific feature with another one.

In the depicted plot, it is observed how the 100 points of age are affected by education, and how they are distributed across the educational range, based on their SHAP value.

Also, the depicted plot can be used to further analyze the importance of each row separately, which is very useful for excluding the outliers in further investigation.

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