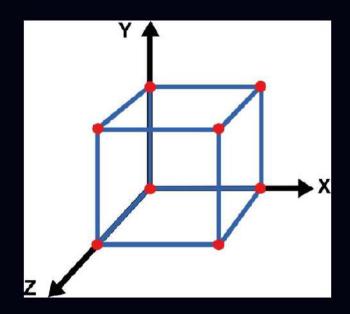
Multi Dimensional Decision Making Python Data Analysis

Bhashkar Paudyal

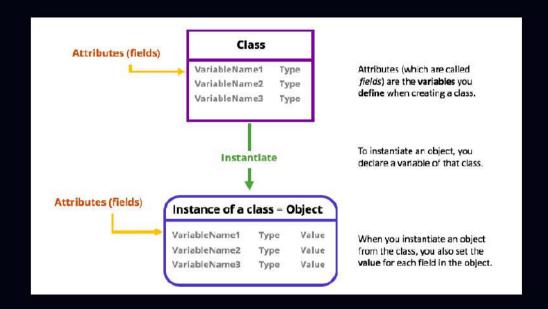
What is Multi Dimensional Decision Making?

- Multi dimensional decision making is a process of making a decision
- Based on multiple dimensions caused by multiple
- factors
- or variables
- or parameters



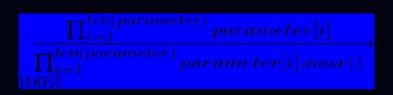
Purpose of Multi Dimensional Decision Making

- Choose which objects of same Class is best
- Classes have attributes
- These attributes are parameters for mddm
- MDDM chooses which object to use on basis of the values of these attributes



Functioning of MDDM

- uses;
- independent variables as input
- dependent variable as target decision
- takes the product of all values of attributes
- finds the volume of multi-dimensional shape
- finds the percentage of this calculated volume



Algorithm of Multi Dimensional Decision Making

- 1. Start
- 2. Create a list of parameters
- 3. Ask for value of parameters
- 4. Append the value to the list
- 5. Ask if user wants to add value to another parameter
- 6. If yes, go to step 3
- 7. If no, go to step 8
- 8. Process mddm(multi dimensional decision making) value
- 9. mddm =
 product_of_parameters/(parameter_max_rating)^len(parameters)
- 10. display mddm

Implementation

```
1 def main():
       print("Welcome to Multi Dimensional Decision Making")
      parameters = []
      max = []
      choice = "y"
      product = 1
      result = 1
       runtime = 0
      while choice = "v":
           if choice = "v":
               print("Enter the parameters")
               for i in range(int(input("Enter the number of parameters: "))):
                   parameters.append(int(input("Enter the parameter: ")))
                  max.append(float(input(f"Enter the max value for parameter{i}: ")))
                  result *= parameters[i] / max[i]
           print(result * 100)
           choice = input("do you want to add values for another object?: ")
20 if __name__ = "__main__":
      main()
```