**Super perform assignment**

**MD MEHEDI HASAN RABBE**

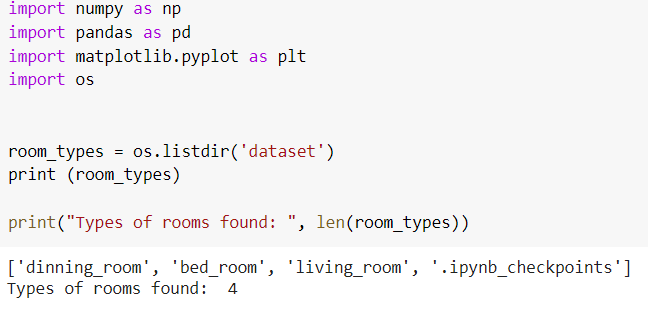
**ID: 2018200000030**

**COURSE: 4041.1**

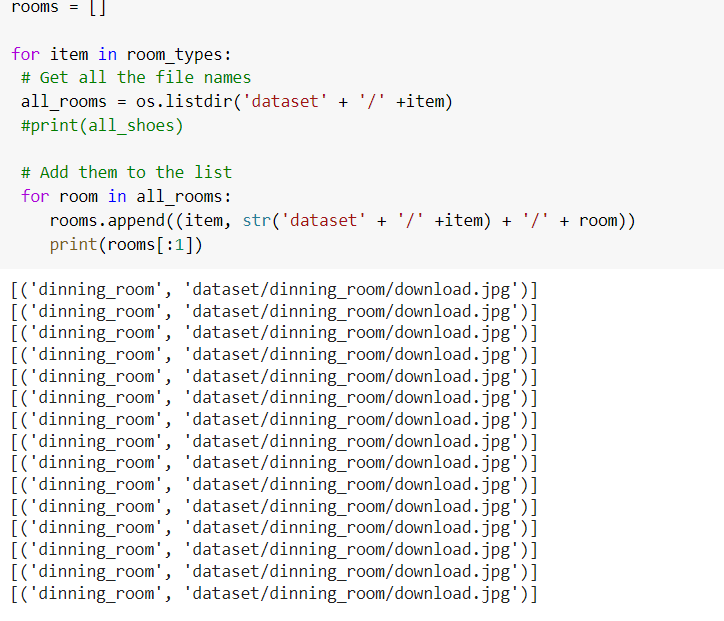
**COURSE NAME: ARTIFICIAL INTELLIGENCE**

# **Image Classification Using Multi Layer Perceptron**

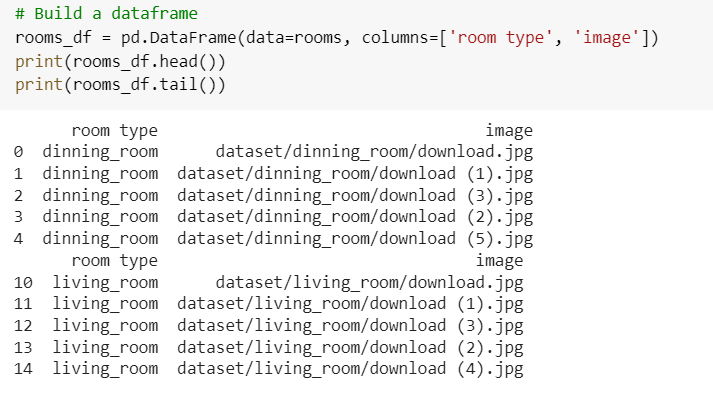
1. **Importing all the required model and directory to all the in that particular folder.**

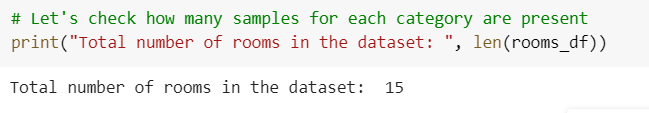
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1. **Storing all the images to their corresponding label using loop**

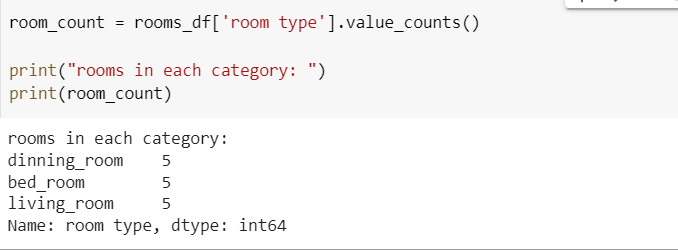
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1. **Now building a data frame**

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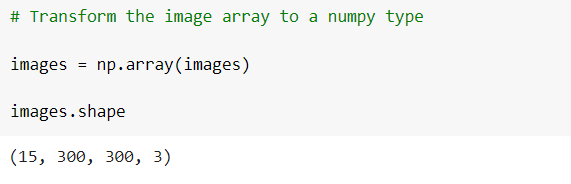
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1. **How many image is in every room**

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1. **Resizing all the images of every room in a single size**

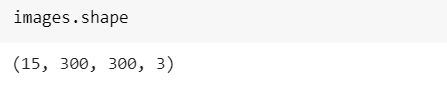
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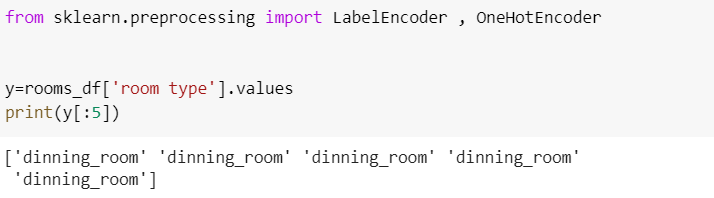
1. **Pixel of tensity lies between 0-255**

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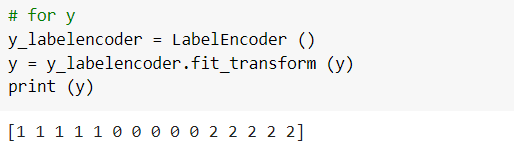
1. **Again checking the shape**

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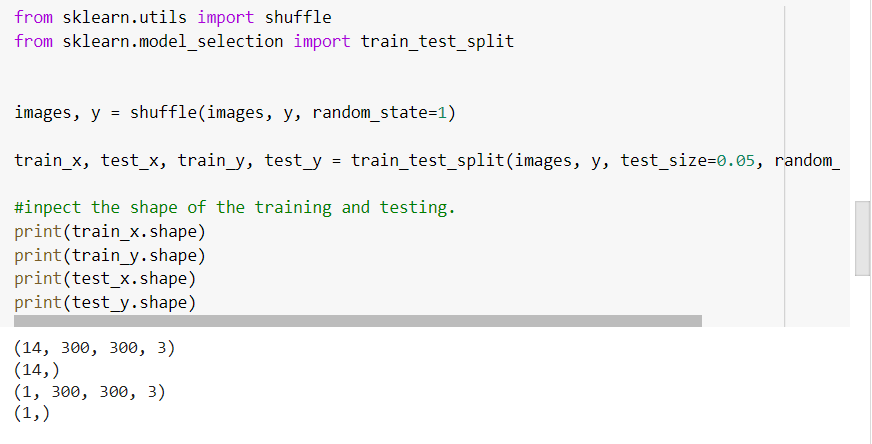
1. **Working on other column on label**

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1. **Label encoding on it**

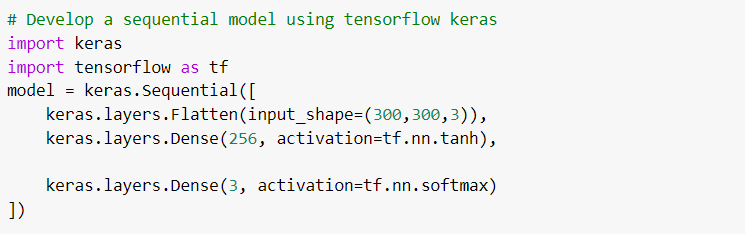
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1. **Now train and testing data**

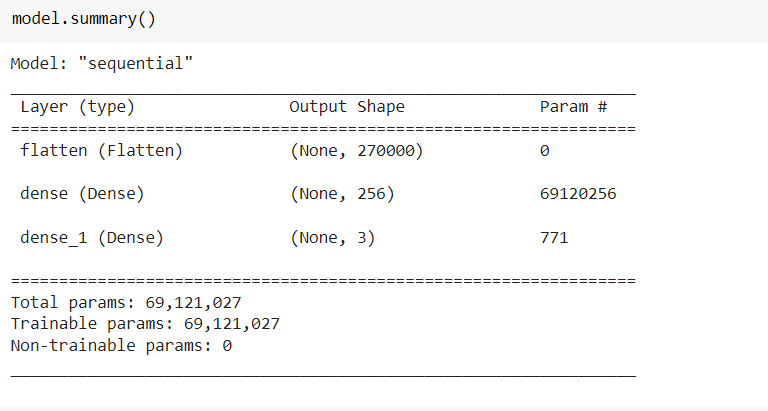
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# **Now our data is ready for Image Classification**

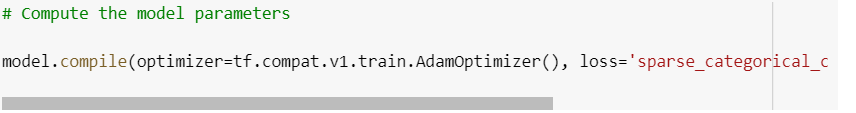
1. **Flatten the convert the image into 1D**

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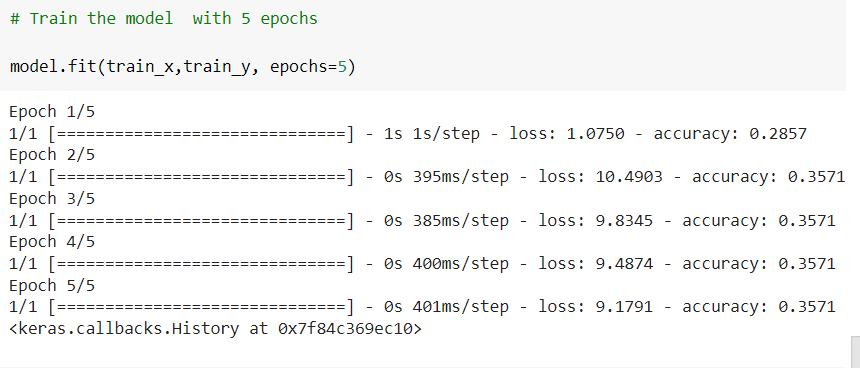
1. **Checking the model summary**

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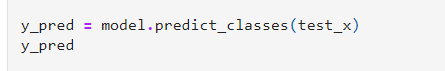
1. **Compiling the model**

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1. **Fitting the model with training data**

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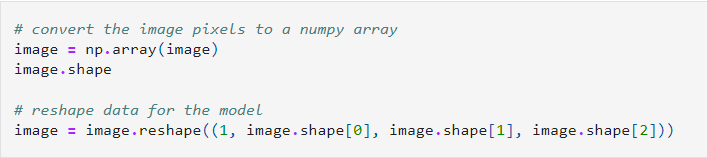
1. **Now we are predicting data(accuracy is less because of less data)**

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1. **Take input user to predict which image is in which classification**

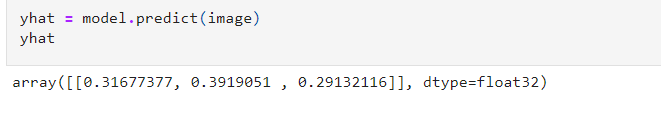
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1. **Computer dont understand image so we have to convert the image into a array**

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1. **Finally prediction for the input of the belongs to which class**

**Here the hire probability is the 2nd class. So the inputed image will be in 2nd class.**

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