

# Investment Analytics – Property Image Classification

**Designed and Developed by**  
Artificial Intelligence and Analytics Team  
A for Analytics



## Contact

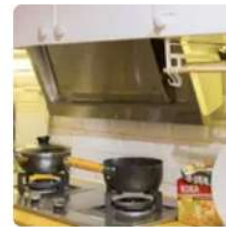
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Artificial Intelligence– How we helped real estate Company to build \$80 M revenue using our Artificial Intelligence Service.



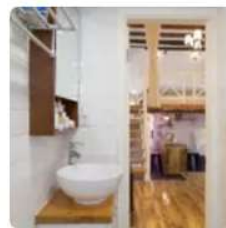
Living room



Full kitchen



Bedroom



Full bathroom

## **INDUSTRY**

Real Estate

## **DEPARTMENT**

AI and Analytics

## **LOCATION**

South America

**PROBLEM STATEMENT:** The customer approached A for Analytics to discuss the problem statement they are gathering Thousand and thousands of Images from partners and Real estate agents. They have invested great amount of time in Classifying the Image of the Property like Bedroom, Bathroom, Dining room and kitchen which has been the ultimate pain point to proceed further in the Business.

Moreover, the complexity is they would like to classify the Images of the Bedroom, Bathroom, Dining room into different category Like Old, New, Old Good, Old Average, and Old Poor.



## SOLUTION METHODOLOGY

We have come up with a Machine learning solution with our Ph.D., Professional and other expert team to utilize Amazon Web service products Sage Maker, S3. A for Analytics used Sage maker to Build & Developed, Train , Test and Deploy the model. We have built the custom Machine learning model using CNN to come up with model that can produce high accuracy compares to other unsupervised models.

We have built separate Machine Learning model to two things

- Classify Type of Rooms in the Image
- Classify Conditions of the Rooms in the Image.

We have successfully completed the project and obtained the overwhelming result with higher accuracy rate than client expected.

We have used CNN to build the model and came up with very high accuracy model when compares to unsupervised learning.

## RESULT:

Our team helped the organization by building the model for their core business. Our Model API is consumed by thousands of thousands of users across south America. The model generating revenue more than \$80M as of now.

## CONCLUSION

We have Industry experts who worked in Different Real estate companies and Pursuing Ph.D in Artificial Intelligence that comes together completed the project on time at low cost compares. We have satisfied the customer with the requirement provided to us. We have been closely worked with IT team and business team to understand the problem better and come up with right approach.

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### ABOUT A FOR ANALYTICS.

A for Analytics is one of the leading Analytics and Artificial Intelligence company on planet earth transforming Business, Operations and Technology models for small, Medium and Large scale Industries. Our approach helps the client's to focus only on Business not on technology that A for Analytics would be taking care of. A for Analytics helps clients at [www.aforanalytic.com](http://www.aforanalytic.com)

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