

WOMEN WHO

**SSID: WWCode**

**Password: password**





WOMEN WHO  
**CODE**  
MANILA



# Machine Learning and AI Study Group

Twitter: @wwcodemania  
FB: fb.com/wwcodemania

#WWCodeManila  
#YourProgrammingLanguage  
#StudyGroup



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Research Fellow

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# OUR MISSION

Inspiring women to excel in technology careers.



# OUR VISION

A world where women are representative as technical executives, founders, VCs, board members and software engineers.



# STUDY GROUP

Study groups are events where women can come together and help each other learn and understand a specific programming language, technology, or anything related to coding or engineering.

# GUIDELINES

- If you have a question, just **ask**
- If you have an idea, **share it**
- **Make friends** and learn from your study groupmates
- **Do not** promote your recruit or promote your business

WOMEN WHO

# **New Member's Introduction**

CODE<sup>®</sup>





**I am <name>**

<your current profession>

<why did you join this study group?>



# AGENDA

1. Review: K-Nearest Neighbor
2. Topic for Today: Missing Values
3. Exercise
4. Presentations

**REVIEW**

**K-NEAREST NEIGHBOR**

# **TOPIC FOR TODAY**

## **DATA PRE-PROCESSING: MISSING VALUES**



# Missing Values

- Usually, there are some missing values in the dataset.
- Missing data in the training data set can reduce the power / fit of a model or can lead to a biased model.
- It can lead to wrong prediction or classification.



# Missing Values

Name	Weight	Gender	Play Cricket/ Not
Mr. Amit	58	M	Y
Mr. Anil	61	M	Y
Miss Swati	58	F	N
Miss Richa	55		Y
Mr. Steve	55	M	N
Miss Reena	64	F	Y
Miss Rashmi	57		Y
Mr. Kunal	57	M	N

Gender	#Students	#Play Cricket	%Play Cricket
F	2	1	50%
M	4	2	50%
Missing	2	2	100%

Name	Weight	Gender	Play Cricket/ Not
Mr. Amit	58	M	Y
Mr. Anil	61	M	Y
Miss Swati	58	F	N
Miss Richa	55	F	Y
Mr. Steve	55	M	N
Miss Reena	64	F	Y
Miss Rashmi	57	F	Y
Mr. Kunal	57	M	N

Gender	#Students	#Play Cricket	%Play Cricket
F	4	3	75%
M	4	2	50%



# Missing Values

The problem of missing values needs to be fixed, taking into account the problem we are trying to solve:

- Remove all records with missing values
- Use a default value
- Estimate a replacement value (imputation)
- ...



# **Partner/Group/Individual Exercise:**

## **PIMA INDIAN DIABETES DATASET**





# **Partner/Group/Individual Presentation**

**MISSING VALUES EXERCISE**



# T.I.L.

**SHARE IT!**  
**In front!**

On Twitter: @wwcodemanila  
Or FB: fb.com/wwcodemanila

Don't forget to tag WWCodeManila so we can retweet or share it.

<https://goo.gl/YzSqcS>

## **Feedback Form**

Please don't rate the event on meetup.

Not helpful. It is best to just tell your concerns via the feedback form. We are building a community not a Yelp restaurant.

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**THANK YOU :)**

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