

WOMEN WHO

SSID: WWCode

Password: password





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MANILA



Machine Learning and AI Study Group

Twitter: @wwcodemanila
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#WWCodeManila
#WWCode.ML.AI
#StudyGroup



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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.

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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

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

WOMEN WHO

New Member's Introduction

CODE®



I am <name>

<your current profession>

<why did you join this study group?>

<background in machine learning and AI>

WOMEN WHO **SHOW & TELL**

Finished any previous
exercises or assignment?
Share it!



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TOPIC FOR TODAY

CATEGORICAL DATA



CATEGORICAL DATA

- Classifiers generally accept **numerical input** (discrete, continuous)
- Not all classifiers can process **string input** (e.g. 'Male', 'Female')
- We need a way to convert categorical data into numerical data.

CATEGORICAL DATA

Nominal

- no intrinsic ordering

Hair colour: red, black, blonde

Race: Asian, Hispanic, African

OS type: Chrome, Firefox, IE, Safari

Ordinal

- an ordering exists

Highest attained educational background:

Elementary, High School, College

Military Rank: Captain, Major, Colonel, General

Ratings: Poor, Neutral, Good, Excellent

CATEGORICAL DATA

user ID	education	gender	eye_color
1	Elementary	Female	blue
2	College	Male	brown
3	High School	Female	green
4	College	Male	brown
5	High School	Female	green

Which
features are
ordinal?
nominal?
binary?

HOW TO HANDLE CATEGORICAL DATA?

user ID	education	gender	eye_color. blue	eye_color.brown	eye_color.green
1	0	1	1	0	0
2	2	0	0	1	0
3	1	1	0	0	1
4	2	0	0	1	0
5	1	1	0	0	1

Goal: Find an appropriate mapping of the categorical (string) data to numerical data.

Partner/Group/Individual Exercise:

**1. HANDLING CATEGORICAL VALUES
TUTORIAL**

2. ADULT CENSUS INCOME DATASET

Note: First-timers/beginners are recommended to start with the Introduction to ML Tutorial



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Partner/Group/Individual Presentation



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.

Feedback Form

<https://goo.gl/YzSqcS>

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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