

An aerial photograph of a coastal city, likely Las Vegas, featuring the Bellagio's fountains and surrounding urban sprawl. A large, semi-transparent red circle is centered over the city, covering approximately the upper half of the frame.

MACHINE LEARNING FOR DESIGNERS

WORKBOOK V03

PSUDOCODE

WHAT _____

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WHAT _____

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GOLF WEATHER DATASET

OUTLOOK	TEMPERATURE	HUMIDITY	WINDY	PLAY?
RAINY	HOT	HIGH	FALSE	NO
RAINY	HOT	HIGH	TRUE	NO
OVERCAST	HOT	HIGH	FALSE	YES
SUNNY	MILD	HIGH	FALSE	YES
SUNNY	COOL	NORMAL	FALSE	YES
SUNNY	COOL	NORMAL	TRUE	NO
OVERCAST	COOL	NORMAL	TRUE	YES
RAINY	MILD	HIGH	FALSE	NO
RAINY	COOL	NORMAL	FALSE	YES
SUNNY	MILD	NORMAL	FALSE	YES
RAINY	MILD	NORMAL	TRUE	YES
OVERCAST	MILD	HIGH	TRUE	YES
OVERCAST	HOT	NORMAL	FALSE	YES
SUNNY	MILD	HIGH	TRUE	NO

ME2: NAIVE BAYES

OUTLOOK		TEMP.		HUMIDITY		WINDY	
NO	YES	NO	YES	NO	YES	NO	YES
3/5	2/9	2/5	2/9	4/5	3/9	1/5	7/9
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OVERCAST		MILD		NORMAL		FALSE	
NO	YES	NO	YES	NO	YES	NO	YES
0/5	4/9	2/5	4/9	1/5	6/9	3/5	3/9
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SUNNY		COOL					
NO	YES	NO	YES				
2/5	3/9	1/5	3/9				

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ME3: IDEATION

GOAL

TARGET VARIABLE

INPUT VARIABLES

EXPECTED OUTPUTS

ME3: IDEATION

GOAL

TARGET VARIABLE

INPUT VARIABLES

EXPECTED OUTPUTS

Further Reading / Resources

Anything by Molly Wright-Stenson

Notes On the Synthesis of Form - Christopher Alexander

Datasmart - John W. Foreman

Social Physics - Alexander Pentland

Misbehaving - Richard Thaler

All of the papers from The AAAI 2017 Spring Symposium on Designing the User Experience of Machine learning

ML4A (web-based book/resources) - Gene Kogan

Anything by Mimi Onuoha

Anything by Patrick Hebron

The Averaged American - Sarah E. Igo

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