



WELCOME

TO MY PROJECT PRESENTATION

Course Title: Artificial Intelligent Lab
Course Code: CSE 404



Project Title

Mini Project on Weka Using Breast Cancer Dataset

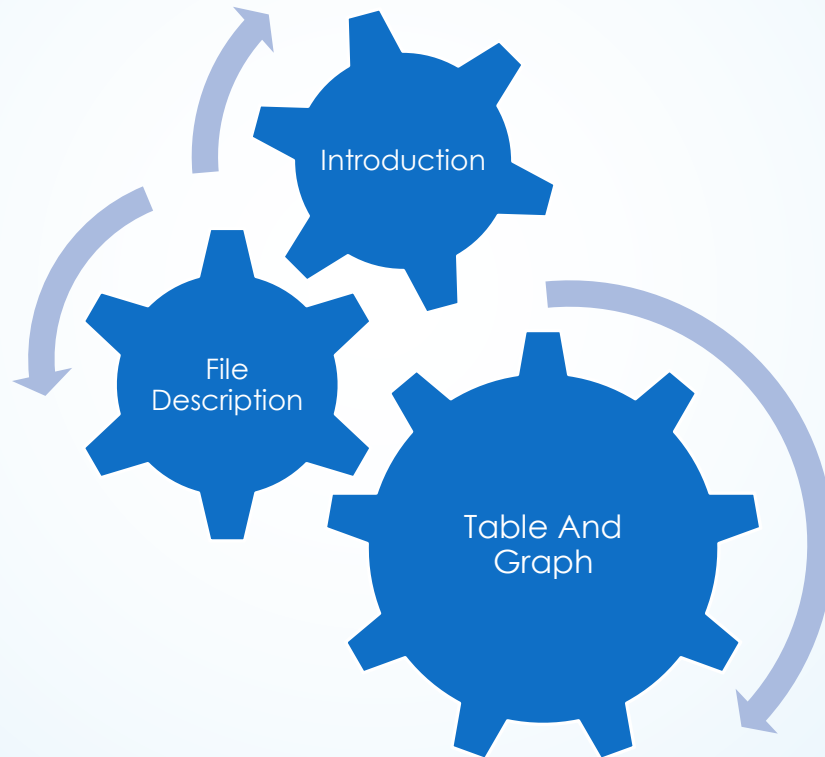
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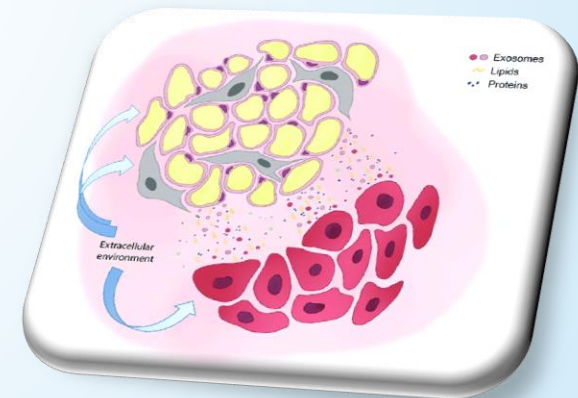
Mr. Jargis Ahmed
Lecturer
Dept. of CSE
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Content



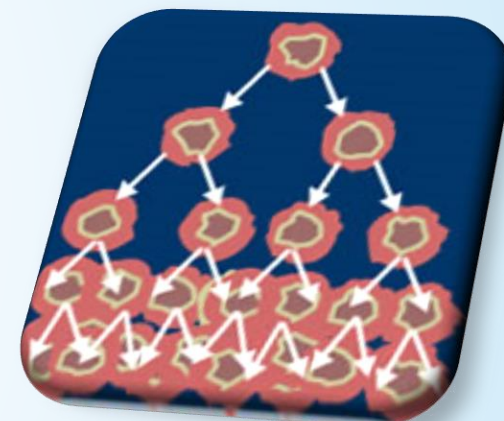
Introduction

- ▶ Weka is a collection of machine learning algorithms for solving real world data mining problems.
- ▶ Breast cancer is a disease in which cells in the breast grow out of control



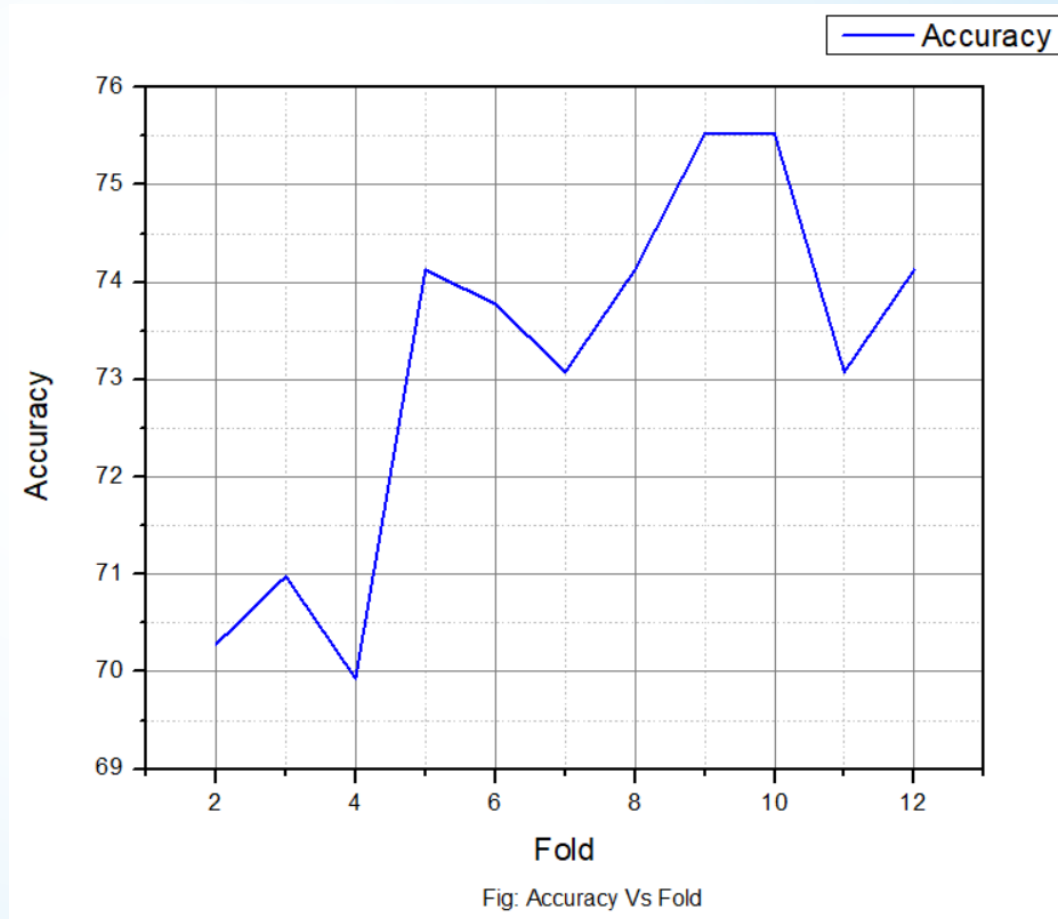
File Description

- This breast cancer domain was obtained from the University Medical Centre, Institute of Oncology, Ljubljana, Yugoslavia
- In the data set includes 201 instances of one class and 85 instances of another class and 9+ attributes .
- Estimated accuracy 97.5% using repeated 10-fold cross validations..
- Predictor with a 71,134 % effectiveness is obtained to estimate.



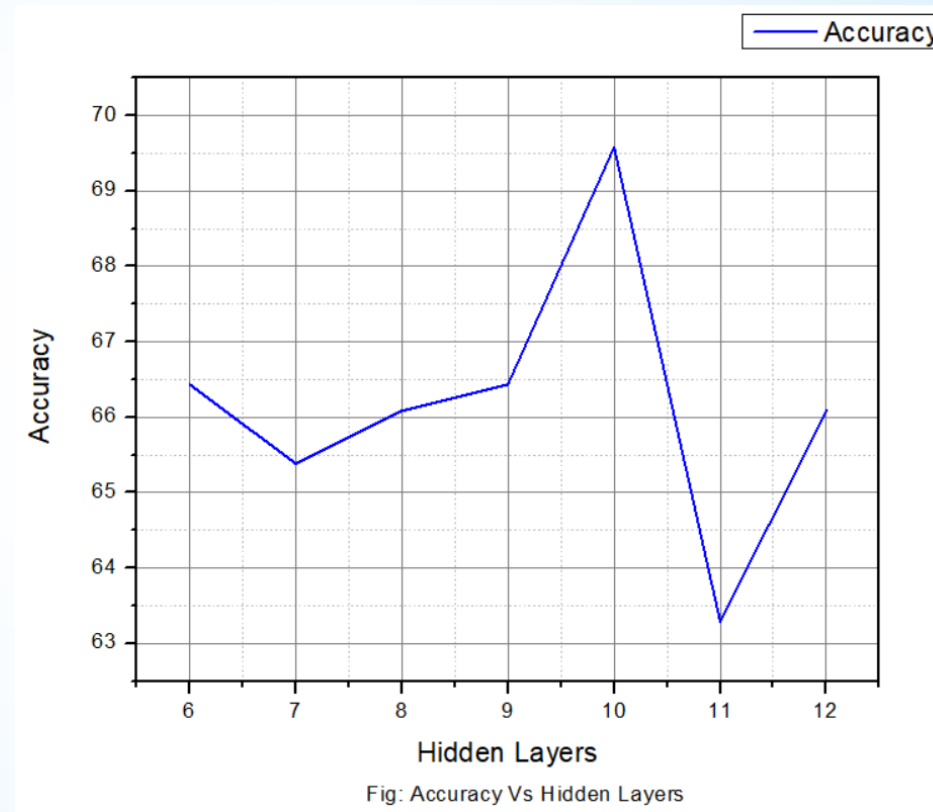
Accuracy Vs Fold (Decision Tree)

Fold No	Accuracy
2	70.2797%
3	70.979%
4	69.9301%
5	74.1259%
6	73.7762%
7	73.0769%
8	74.1259%
9	75.5245%
10	75.5245%
11	73.0769%
12	74.1259%



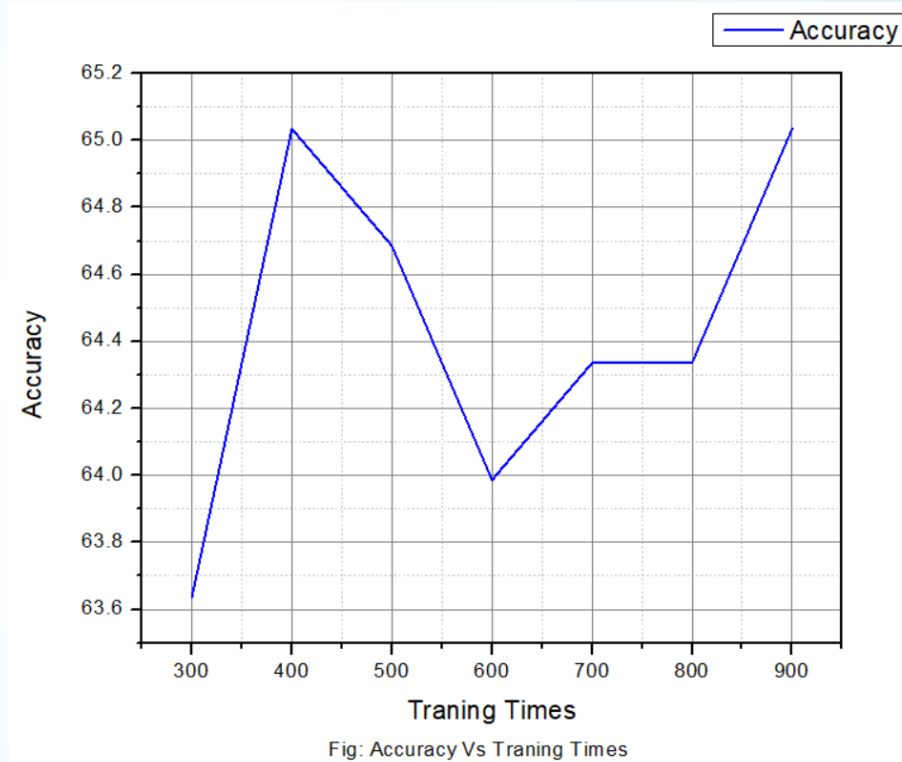
Accuracy Vs Hidden Layers (Neural network)

Hidden Layers	Accuracy
6	66.4336%
7	65.3846%
8	66.0839%
9	66.4336%
10	69.5804%
11	63.2867%
12	66.0839%



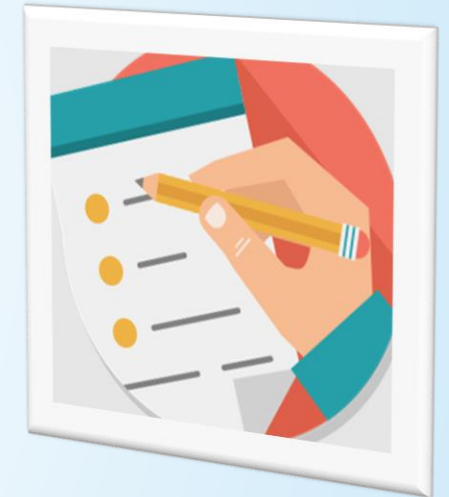
Accuracy Vs Training Times (Neural network)

Training Times	Accuracy
300	63.6364%
400	65.035%
500	64.6853%
600	63.986%
700	64.33574%
800	64.3357%
900	65.035%



References

- ▶ The documents of Weka related things which is provided by our honorable course teacher **Mr. Jargis Ahmed** Sir.
- ▶ <https://archive.ics.uci.edu/ml/datasets/Breast+Cancer+Wiscnsin+%28Original%29>
- ▶ <https://revistas.utb.edu.ec/index.php/sr/article/download/405/294/>
- ▶ Google and YouTube



- That's All
- Thanks

