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# Assignment-3 (View only Draft)

Specification

Make Submission

Check Submission

Collect Submission

#### Introduction

In this assignment, you will be using the loan dataset provided and the machine learning algorithms you have learned in this course in order to predict:

- 1. If a loan applicant will be able to repay the loan or not
  - This will help the bank to decide if it is risky to approve the loan application
- 2. Predict the client's income based on the information provided in the application
  - This can help the bank to further investigate if the provided documents for payslips are fishy or not.

NOTE: this is a very challenging problem and we are not expecting very high accuracy in your predictions. However, you must apply all your analytic skills to build decent ML models;

#### **Datasets**

In this assignment, you will be given two datasets training.csv & test.csv (https://webcms3.cse.unsw.edu.au/COMP9321/22T1/resources/74268)

Here is the description of the columns in these datasets:

Row	Description
SK ID CURR	ID of loan in our sample
	Target variable (1 - client with payment difficulties: he/she had late
TARGET	payment more than X days on at least one of the first Y installments
	of the loan in our sample, 0 - all other cases)
NAME_CONTRACT_TYPE	Identification if loan is cash or revolving
CODE_GENDER	Gender of the client
FLAG_OWN_CAR	Flag if the client owns a car
FLAG_OWN_REALTY	Flag if client owns a house or flat
CNT_CHILDREN	Number of children the client has
AMT_INCOME_TOTAL	Income of the client
AMT_CREDIT	Credit amount of the loan
AMT_ANNUITY	Loan annuity
AMT_GOODS_PRICE	For consumer loans it is the price of the goods for which the loan is
	given
NAME_TYPE_SUITE	Who was accompanying client when he was applying for the loan
NAME_INCOME_TYPE	Clients income type (businessman, working, maternity leave,)
NAME_EDUCATION_TYPE	Level of highest education the client achieved
NAME_FAMILY_STATUS	Family status of the client
NAME_HOUSING_TYPE	What is the housing situation of the client (renting, living with parents,

DAYS BIRTH

Normalized population of region where client lives (higher number REGION POPULATION RELATIVE

means the client lives in more populated region) Client's age in days at the time of application

How many days before the application the person started current DAYS EMPLOYED

employment

How many days before the application did client change his DAYS REGISTRATION

registration

How many days before the application did client change the identity DAYS ID PUBLISH

document with which he applied for the loan

OWN CAR AGE Age of client's car

Did client provide mobile phone (1=YES, 0=NO) FLAG MOBIL FLAG EMP PHONE Did client provide work phone (1=YES, 0=NO) Did client provide home phone (1=YES, 0=NO) FLAG WORK PHONE Was mobile phone reachable (1=YES, 0=NO) FLAG CONT MOBILE Did client provide home phone (1=YES, 0=NO) FLAG PHONE

Did client provide email (1=YES, 0=NO) FLAG EMAIL OCCUPATION TYPE What kind of occupation does the client have How many family members does client have CNT FAM MEMBERS REGION RATING CLIENT Our rating of the region where client lives (1,2,3)

Our rating of the region where client lives with taking city into account REGION RATING CLIENT W CITY

(1,2,3)

WEEKDAY APPR PROCESS START On which day of the week did the client apply for the loan

HOUR APPR PROCESS START Approximately at what hour did the client apply for the loan

Flag if client's permanent address does not match contact address REG REGION NOT LIVE REGION

(1=different, 0=same, at region level)

REG REGION NOT WORK REGION

Flag if client's permanent address does not match work address

(1=different, 0=same, at region level)

LIVE REGION NOT WORK REGION

Flag if client's contact address does not match work address

(1=different, 0=same, at region level)

Flag if client's permanent address does not match contact address REG CITY NOT LIVE CITY

(1=different, 0=same, at city level)

Flag if client's permanent address does not match work address REG CITY NOT WORK CITY

(1=different, 0=same, at city level)

Flag if client's contact address does not match work address LIVE\_CITY\_NOT\_WORK\_CITY

(1=different, 0=same, at city level)

ORGANIZATION TYPE Type of organization where client works EXT SOURCE 1 Normalized score from external data source **EXT SOURCE 2** Normalized score from external data source EXT SOURCE 3 Normalized score from external data source

Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix)

> apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is

average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) BASEMENTAREA AVG apartment size, common area, living area, age of building, number of

> elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix)

apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor

YEARS BEGINEXPLUATATION AVG

APARTMENTS AVG

YEARS BUILD AVG

COMMONAREA\_AVG

**ELEVATORS AVG** 

**ENTRANCES AVG** 

FLOORSMAX\_AVG

FLOORSMIN\_AVG

LANDAREA AVG

LIVINGAPARTMENTS\_AVG

LIVINGAREA AVG

NONLIVINGAPARTMENTS AVG

NONLIVINGAREA AVG

APARTMENTS MODE

BASEMENTAREA MODE

Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor

YEARS\_BEGINEXPLUATATION\_MODE

YEARS\_BUILD\_MODE

COMMONAREA MODE

**ELEVATORS\_MODE** 

ENTRANCES MODE

FLOORSMAX\_MODE

FLOORSMIN MODE

LANDAREA MODE

LIVINGAPARTMENTS\_MODE

LIVINGAREA MODE

NONLIVINGAPARTMENTS\_MODE

NONLIVINGAREA MODE

APARTMENTS MEDI

Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor

BASEMENTAREA\_MEDI

YEARS\_BEGINEXPLUATATION\_MEDI

YEARS BUILD MEDI

COMMONAREA MEDI

**ELEVATORS MEDI** 

ENTRANCES MEDI

FLOORSMAX MEDI

FLOORSMIN MEDI

LANDAREA\_MEDI

LIVINGAPARTMENTS MEDI

LIVINGAREA MEDI

NONLIVINGAPARTMENTS MEDI

NONLIVINGAREA MEDI

Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor

Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) FONDKAPREMONT MODE apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) HOUSETYPE MODE apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) TOTALAREA MODE apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average (\_AVG suffix), modus (\_MODE suffix), median (\_MEDI suffix) WALLSMATERIAL MODE apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor Normalized information about building where the client lives, What is average ( AVG suffix), modus ( MODE suffix), median ( MEDI suffix) EMERGENCYSTATE MODE apartment size, common area, living area, age of building, number of elevators, number of entrances, state of the building, number of floor How many observation of client's social surroundings with observable OBS 30 CNT SOCIAL CIRCLE 30 DPD (days past due) default How many observation of client's social surroundings defaulted on 30 DEF 30 CNT SOCIAL CIRCLE DPD (days past due) How many observation of client's social surroundings with observable OBS 60 CNT SOCIAL CIRCLE 60 DPD (days past due) default How many observation of client's social surroundings defaulted on 60 DEF 60 CNT SOCIAL CIRCLE (days past due) DPD DAYS LAST PHONE CHANGE How many days before application did client change phone FLAG DOCUMENT 2 Did client provide document 2 FLAG DOCUMENT 3 Did client provide document 3 FLAG DOCUMENT 4 Did client provide document 4 FLAG DOCUMENT 5 Did client provide document 5 FLAG DOCUMENT 6 Did client provide document 6 FLAG DOCUMENT 7 Did client provide document 7 FLAG DOCUMENT 8 Did client provide document 8 FLAG DOCUMENT 9 Did client provide document 9 FLAG DOCUMENT 10 Did client provide document 10 FLAG DOCUMENT 11 Did client provide document 11 FLAG DOCUMENT 12 Did client provide document 12 FLAG DOCUMENT 13 Did client provide document 13 FLAG DOCUMENT 14 Did client provide document 14 FLAG DOCUMENT 15 Did client provide document 15 FLAG DOCUMENT 16 Did client provide document 16 FLAG DOCUMENT 17 Did client provide document 17 FLAG DOCUMENT 18 Did client provide document 18 FLAG\_DOCUMENT\_19 Did client provide document 19 FLAG DOCUMENT 20 Did client provide document 20 FLAG DOCUMENT 21 Did client provide document 21 Number of enquiries to Credit Bureau about the client one hour before AMT REQ CREDIT BUREAU HOUR

application

(excluding last 3 months before application)

AMT\_REQ\_CREDIT\_BUREAU\_DAY

AMT\_REQ\_CREDIT\_BUREAU\_WEEK

AMT\_REQ\_CREDIT\_BUREAU\_MON

AMT\_REQ\_CREDIT\_BUREAU\_MON

AMT\_REQ\_CREDIT\_BUREAU\_MON

AMT\_REQ\_CREDIT\_BUREAU\_QRT

AMT\_REQ\_CREDIT\_BUREAU\_QRT

AMT\_REQ\_CREDIT\_BUREAU\_QRT

AMT\_REQ\_CREDIT\_BUREAU\_QRT

AMT\_REQ\_CREDIT\_BUREAU\_QRT

AMT\_REQ\_CREDIT\_BUREAU\_YEAR

Number of enquiries to Credit Bureau about the client one month before application (excluding one week before application)

Number of enquiries to Credit Bureau about the client 3 month before application (excluding one month before application)

Number of enquiries to Credit Bureau about the client one day year

You can use the **training** dataset (but not validation) for training machine learning models, and you can use the test dataset to evaluate your solutions and avoid over-fitting.

#### Please Note:

- This assignment specification is deliberately left open to encourage students to submit innovative solutions.
- · You can only use Scikit-learn to train your machine learning algorithm
- Your model will be evaluated against a different set of datasets (available for tutors, but not for students)
- · You must submit your code and a report
- The due date is 22/04/2022 at 20:00

### Part-I: Regression (10 Marks)

In the first part of the assignment, you are asked to predict the client's "income" based on the information provided in their loan application. More specifically, you need to predict a client's income based on columns (or any subsets) provided in the dataset except for AMT\_INCOME\_TOTAL, which you are predicting.

- The minimum requirement for *Correlation for this part is 0.20* on the final test dataset (the dataset will not be public, and will be used by tutors to test your models- so do not try to overfit your models on the provided datasets)
- You should analyze and select features they think would improve your machine learning models (and filter out those that may not). You can also combine multiple features and create new ones.

### Part-II: Classification (10 Marks)

Using the same datasets, you must predict if a loan application should be approved or not. For this part, you can use all columns (or any subset) of the dataset except "TARGET", the column that you are going to predict.

- The minimum requirement for *Accuracy for this part is 0.85* on the final test dataset (the dataset will not be public, and will be used by tutors to test your models- so do not try to overfit your models on the provided datasets)
- You should analyze and select features they think would improve your machine learning models (and filter out those that may not). You can also combine multiple features and create new ones.

#### **Submission**

You must submit two files:

- A python script z{id}.py
- A report named z{id}.pdf

#### Python Script and Expected Output files

Your code must be executed in CSE machines using the following command with three arguments:

```
$ python3 z{id}.py path1 path2
```

- path1: indicates the path for the dataset which should be used for training the model (e.g., ~/training.csv)
- path2: indicates the path for the dataset which should be used for reporting the performance of the trained model (e.g., ~/test.csv); we may use different datasets for evaluation

For example, the following command will train your models for the first part of the assignment and use the test dataset to report the performance:

```
$ python3 YOUR_ZID.py training.csv test.csv
```

Your program should create 4 files on the same directory as the script:

- z{id}.PART1.summary.csv
- z{id}.PART1.output.csv
- z{id}.PART2.summary.csv
- z{id}.PART2.output.csv

For the first part of the assignment:

" z{id}.PART1.summary.csv " contains the evaluation metrics (MSE, correlation) for the model trained in the first part of the assignment. Use the given validation dataset to compute the metrics. The file should be formatted exactly as follow:

```
zid,MSE,correlation
z123456,6.13,0.53
```

- MSE : the mean squared error in the regression problem
- **correlation**: The **Pearson correlation coefficient** in the regression problem (a floating number between -1 and 1)
- " z{id}.PART1.output.csv " stores the predicted revenues for all of the movies in the evaluation dataset (not the training dataset), and the file should be formatted exactly as:

```
SK_ID_CURR,predicted_income
1,178000
2,256000
...
```

For the second part of the assignment:

" z{id}.PART2.summary.csv " contains the evaluation metrics (average\_precision, average\_recall, accuracy - the unweighted mean ) for the model trained in the second part of the assignment. Use the given validation dataset to compute the metrics. The file should be formatted exactly as:

```
zid,average_precision,average_recall,accuracy
z123456,0.69.71,0.89
```

- average\_precision : the average precision for all classes in the classification problem (a number between 0 and 1)
- average\_recall : the average recall for all classes in the classification problem (a number between 0 and 1)
- " z{id}.PART2.output.csv " stores the predicted ratings for all of the movies in the test dataset (not the training dataset) and it should be formatted exactly as follow:

```
SK_ID_CURR,predicted_target
1,1
2,0
...
```

### Marking Criteria

You will be marked based on:

- (4 marks) Your code must run and perform the designated tasks on CSE machines without problems and create the expected files. Your submission will be penalized up to 50% if is not able to create the output files.
- (8 marks) How well your model (trained on the training dataset) performs in the test dataset (a different dataset not available for students will be used for fair marking)

  A submission will get 0 if it does not pass the advertised baselines (minimum requirements). Tutors will

judge how good are your models in each part of the assignment and give marks accordingly.

- **(3 marks)** You must correctly calculate the evaluation metrics (e.g., average\_precision 2 decimal places ) in the output files (e.g., z{id}.PART2.summary.csv)
- (5 marks) A report
  - You should provide a report, containing your analysis of the dataset which helps you in the feature engineering of your machine learning models. For this, you must use Jupiter Notebook and export it as a PDF (https://towardsdatascience.com/jupyter-notebook-to-pdf-in-a-few-lines-3c48d68a7a63) file. Add comments in your notebook describing what are you concluding for each of your analyses. Use chars and any skill you have learnt in the course to support your decisions about features used in your ML models.
- The late penalty is 5% per day, and submissions after day 5 will not be marked.
- You will be penalized (1 mark per minute) if your models take more than 3 minutes to train and generate output files.
- · Your assignment will not be marked (zero marks) if any of the following occur:
  - If it generates hard-coded predictions
  - If it also uses the second dataset (test/validation) to train the model
  - If it does not run on CSE machines with the given command (e.g., python3 zid.py training\_dataset.csv test\_dataset.csv)
     Do NOT hard-code the dataset names

### **FAQ**

- Can we define our own feature set?

  Yes, you can define any features; make sure your features do not rely on the test datasets.
- For the average precision/recall functions, should we use the unweighted ('macro') mean or the weighted mean?

Use the unweighted ('macro') mean

- Should we calculate metrics to 1 Decimal Place?
  - 2 Decimal Places
- · Can we use any machine learning algorithm?

Yes, as long as it is provided in sklearn.

· What python modules can we use for developing our solutions?

You can use any modules presented in the lab activities; otherwise, you may get permission by asking ...

- How should we calculate the Pearson correlation coefficient?
   It is calculated between your predictions and the real values for the test dataset.
- Will I get penalized for "Warnings" thrown by my code?

No, you will not get penalized

## **Plagiarism**

This is an *individual assignment*. The work you submit must be your own work. Submission of work partially or completely derived from any other person or jointly written with any other person is not permitted. The penalties for such offense may include negative marks, automatic failure of the course, and possibly other academic disciplines. Assignment submissions will be checked using plagiarism detection tools for both code and the report and then the submission will be examined manually.

Do not provide or show your assignment work to any other person - apart from the teaching staff of this course. If you knowingly provide or show your assignment work to another person for any reason, and work derived from it is submitted, you may be penalized, even if the work was submitted without your knowledge or consent. Pay attention to that is **also your duty to protect your code artifacts**. if you are using an online solution to store your code artifacts (e.g., GitHub) then make sure to keep the repository private and do not share access to anyone.

Reminder: Plagiarism is defined as (https://student.unsw.edu.au/plagiarism) using the words or ideas of others and presenting them as your own. UNSW and CSE treat plagiarism as academic misconduct, which means that it carries penalties as severe as being excluded from further study at UNSW. There are several online sources to help you understand what plagiarism is and how it is dealt with at UNSW:

- Plagiarism and Academic Integrity (https://student.unsw.edu.au/plagiarism)
- UNSW Plagiarism Procedure (https://www.gs.unsw.edu.au/policy/documents/plagiarismprocedure.pdf)

Make sure that you read and understand this. Ignorance is not accepted as an excuse for plagiarism. In particular, you are also responsible for ensuring that your assignment files are not accessible by anyone but you by setting the correct permissions in your CSE directory and code repository, if using one (e.g., Github and similar). Note also that plagiarism includes paying or asking another person to do a piece of work for you and then submitting it as your own work.

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW.

Resource created 10 days ago (Monday 28 March 2022, 10:50:39 AM), last modified about 23 hours ago (Wednesday 06 April 2022, 02:05:07 PM).

Comments
□ Q (/COMP9321/22T1/forums/search?forum_choice=resource/74265)
(/COMP9321/22T1/forums/resource/74265)
Add a comment



Tanya Hollis (/users/z5323560) <u>about an hour from now (Thu Apr 07 2022 14:00:44 GMT+0800 (香港</u> 标准时间))

Hi tutors &/or Morty, I have 2 questions...

- 1) Regarding marking criteria "You will be penalized (1 mark per minute) if your models take more than 3 minutes to train and generate output files.".... On what kind of machine are you marking? If we are developing on a fast gaming enabled computer, and we carry out full testing at uni on a "good day" (low number of students) and the whole output is generated in well under 3 mins. Will we be marked down if the marker chose to mark on University machines on a "bad day" and it takes over 3mins? Should we retain timing "proof" that our assignments can run under 3mins on UNSW machines?
- 2) The assignment specification refers to a validation set. Should we be splitting off some of our training data for validation purposes? Or should we just assume by "validation" you mean "test"?

Reply