

# COMP 6741 Intelligent Systems

## Project Report

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## Introduction

This project is to build Unibot, an intelligent agent that can answer university course and student related questions, using a knowledge graph and natural language processing.

### 1. Competency Questions:

1. What is course [Course subject] [Course code] about?  
ex:What is course COMP 6741 about?
2. Which topics is [Student] competent in?  
ex:Which topics is Bo Wang competent in?
3. Which course teaches [Topic]?  
ex:Which course teaches a knowledge graph?
4. Which topics are covered in course [Course subject] [Course code]?  
ex:Which topics are covered in COMP 6741?
5. What is [Student]' s Email?  
ex:What is Bo Wang' s Email?
6. What are the readings for course [Course subject] [Course code]?  
ex:What are the suggested readings for COMP 6741?
7. How many credits [Student] gained at [University]?  
ex:How many credits Bo Wang gained at Concordia?
8. How many lectures are in [Course]?  
ex:How many lectures are in COMP 6741?
9. How many courses did [Student] attend at [University]?  
ex:How many courses did Bo Wang attend at Concordia?
10. How many credits is course [Course subject] [Course code] worth?

ex:How many credits is course COMP 6741 worth?

11. Which topics are covered in [content] of [Course subject] [Course code]?

ex:Which topics are covered in Lab #3 of COMP 6721?

12. Can you list all related course content for [topic]?

ex:Can you list all related course content for knowledge graph?

**statistics questions:**

13. How many triples in total?

14. How many distinct topics?

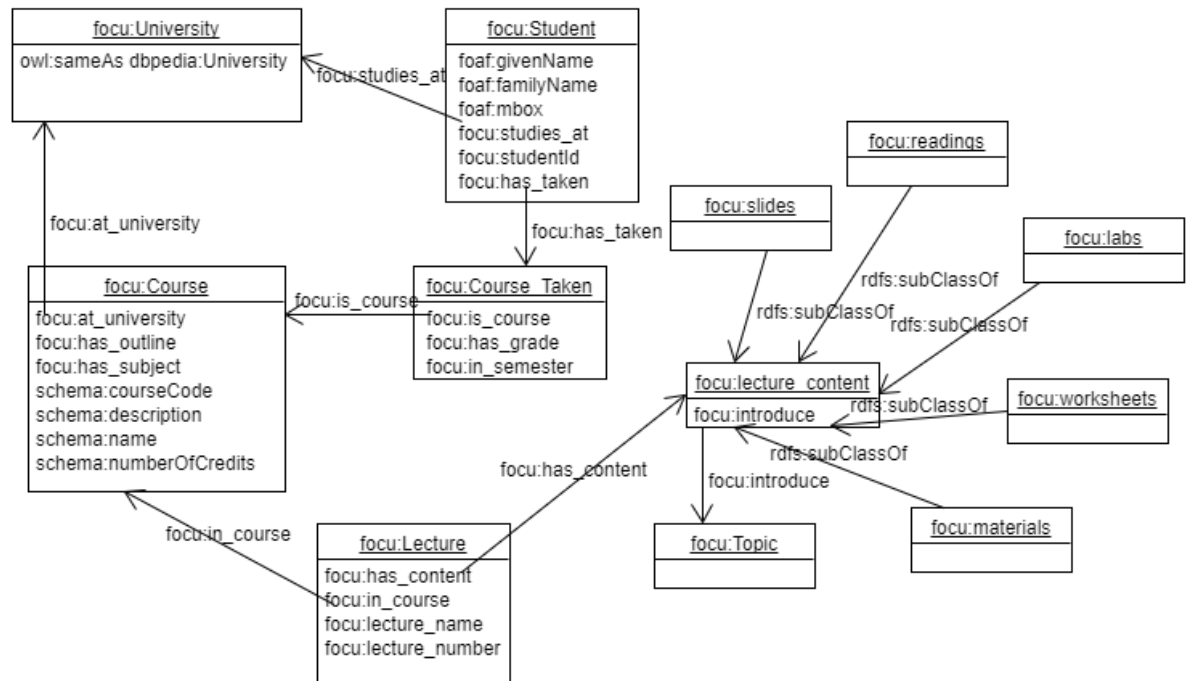
15. How many courses in total?

16. How many topics in total?

## **2. Vocabulary:**

We created 12 classes along with their properties. Each class and property has its own definition, `rdfs:label`, `rdfs:comment`, etc. We used some existing vocabulary and also developed some. For example, for students, we used foaf vocabularies to describe person properties and for courses we chose some from schema vocabularies.

The models and vocabularies are as follow:



### 3. Knowledge Base Construction:

#### Part I:

(a) To build my knowledge database, We used a total of 7 datasets.

One is the course CSV file which has all the information about Concordia's courses from the open datasets, the other two lecture CSV files collected the basic info of the materials of the two main courses in our knowledge base, two students CSV files are some information about the students, the last two file folders consisting of detailed various course materials for the two courses.

(b) For the course materials in the file folders, each file has its corresponding fire URI in the corresponding course CSV file.

For the CSV file, we first do the data cleaning to make sure the data is well-formatted and rid of irrelevancies before it is used and then use python to read all the csv files and turn them into RDF files.

## **PartII:**

**Pre-Processing:** Use Apache Tika as an external library to convert all the materials that each course has from their original source format to the plain text files and save the converted file path to the corresponding lecture CSV file.

**Entity Linking:** For each material section, we will first set up our Spacy environment and load pre-trained models in order to get entities of our input text data. Since we need to link our entity to DBpedia, thus we add the custom DBpedia pipeline for the linking purpose. In addition to the custom pipeline, we also add a configuration of confidence level and overwrite entities flag to prevent multiple entities for the same input;

We then read and load the corresponding converted file according to the material section we are working on of the lecture file. For each entity, we make sure there are no duplicates as well as for the entity links, and since we just want the named entities for the topics, therefore, we only work with those whose POS tags are “NOUN” or “PROPN”. Also, we want the entity to be successfully linked to DBpedia, so we filter the entity only with

h its label equal to “DBPEDIA\_ENT”. Besides, to avoid mistaking the entities, we set a criterion that the similarity score must be higher than 0.85.

**Triplication:** After we filter all the entities we want, we encode them in the form of triples and link them to the corresponding course event. Finally, we merge each subgraph together to get the final knowledge base.

Total number of triples	18599
Total number of distinct topics	1167
Total number of topic instances	1167
Total number of course instances	1715

#### 4. Queries:

##### a, For some simple questions as

1. What is course COMP6741 about?
5. What is Bo Wang' s Email?
6. What are the suggested readings for COMP6741?
10. How many credits is course COMP6741 worth?

since the information is all in one model, we need just put the conditions and using the model it queries, for example the query for question5:

```
PREFIX foaf: <http://xmlns.com/foaf/0.1/>

SELECT ?email

WHERE {

    ?student foaf:givenName "Bo"@en.
    ?student foaf:familyName "Wang"@en.
    ?student foaf:mbox ?email.

}
```

the output will be student Bo Wang' s email: bowang@concordia.ca

##### b, For some questions which need some calculations as

7. How many credits Bo Wang gained at Concordia?
8. How many lectures are in COMP6741?
9. How many courses did Bo Wang attend at Concordia?
11. How many triples in total?

we can use the functions SPARQL provided, for example the query for question8:

```
PREFIX focu: <http://focu.io/schema#>

PREFIX schema: <http://schema.org/>

SELECT (count(?lecture) as ?total)

WHERE {

    ?course focu:has_subject "COMP".
    ?course schema:courseCode "6741".

}
```

```

        ?lecture focu:in_course ?course.
    }

```

The output will be 7 lectures which we have in our knowledge db.

**c, For more complicated questions as**

2. Which topics are Bo Wang competent in?
3. Which course teaches a knowledge graph?
4. Which topics are covered in COMP 6741?

we need to connect two or more models with the properties we created,  
for example the query for question3:

```

PREFIX focu: <http://focu.io/schema#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX schema: <http://schema.org/>
SELECT ?name
WHERE {
    ?uni rdfs:label "Concordia University"@en.
    ?course focu:at_university ?uni.
    ?course schema:name ?name.
    ?lecture focu:in_course ?course.
    ?lecture focu:introduce ?topic.
    ?topic rdfs:label "Knowledge Graph".
}

```

The output will be:

Intelligent Systems

Introduction to Artificial Intelligence

since we have two courses which teach this topic.

**Result list for questions:(part1)**

1,



Knowledge representation and reasoning. Uncertainty and conflict resolution. Design of intelligent systems. Grammar-based, rule-based, and blackboard architectures. A project is required. Laboratory: two hours per week

2,

Convolutional Neural Network: [http://dbpedia.org/resource/Convolutional\\_neural\\_network](http://dbpedia.org/resource/Convolutional_neural_network)

Artificial Neural Network: [http://dbpedia.org/resource/Artificial\\_neural\\_network](http://dbpedia.org/resource/Artificial_neural_network)

Naive Bayes Classifier: [http://dbpedia.org/resource/Naive\\_Bayes\\_classifier](http://dbpedia.org/resource/Naive_Bayes_classifier)

Heuristic: <http://dbpedia.org/resource/Heuristic>

State Space Search: [http://dbpedia.org/resource/State\\_space](http://dbpedia.org/resource/State_space)

Natural Language Processing: [http://dbpedia.org/resource/Natural\\_language\\_processing](http://dbpedia.org/resource/Natural_language_processing)

Artificial Intelligence: [http://dbpedia.org/resource/Artificial\\_intelligence](http://dbpedia.org/resource/Artificial_intelligence)

Decision Tree: [http://dbpedia.org/resource/Decision\\_tree](http://dbpedia.org/resource/Decision_tree)

Vector Space Model: [http://dbpedia.org/resource/Vector\\_space](http://dbpedia.org/resource/Vector_space)

Knowledge Graph: <http://dbpedia.org/resource/knowledge-graphs>

3,

Intelligent Systems

Introduction to Artificial Intelligence

4,

Vocabulary <http://dbpedia.org/resource/Vocabulary>

Knowledge Graph <http://dbpedia.org/resource/knowledge-graphs>

Knowledge Base [http://dbpedia.org/resource/Knowledge\\_base](http://dbpedia.org/resource/Knowledge_base)

Recommender System [http://dbpedia.org/resource/Recommender\\_system](http://dbpedia.org/resource/Recommender_system)

Intelligent System [http://dbpedia.org/resource/Intelligent\\_system](http://dbpedia.org/resource/Intelligent_system)

Machine Learning [http://dbpedia.org/resource/Machine\\_learning](http://dbpedia.org/resource/Machine_learning)

SPARQL <http://dbpedia.org/resource/SPARQL>

5, [bowang@condordia.ca](mailto:bowang@condordia.ca)

6, <https://techblog.wikimedia.org/2020/03/24/computational-knowledge-wikidata-wikidata-query-service-and-women-who-are-mayors/>  
<https://datajournalism.com/read/longreads/the-promise-of-wikidata>  
<https://stanford.edu/~shervine/teaching/cs-229/refresher-algebra-calculus>  
[https://en.wikipedia.org/wiki/Precision\\_and\\_recall](https://en.wikipedia.org/wiki/Precision_and_recall)  
[https://en.wikipedia.org/wiki/K-means\\_clustering](https://en.wikipedia.org/wiki/K-means_clustering)  
<https://www.datacamp.com/community/tutorials/k-nearest-neighbor-classification-scikit-learn>

7, 8

8, 7

9, 2

10, 4

11, How many triples in total: 13024

12, How many courses in total: 1715

**5, KB population:** Add a section (ca. one page) describing your process of creating the topic triples for your knowledge base (processing, linking, filtering), together with a table providing statistics for the generated triples (total number of triples, number of distinct topics, number of topic instances/course).

## **6, Chatbot design:**

First define the intent, and list all the questions as training data, Rasa NLU will perform model training based on this data, and then use the model to semantically understand user messages. Stories are the scene flow of the dialogue, which contains the intent and entity that can reflect the user's input information and the actions that should be taken in the reply. We extract the slot value in the action, pass it to the relevant sparql as a variable, and send a request to the fuseki server, and then return after getting the answer.

### **Result list for sample questions:**

1. what is course COMP 6741 about?

Knowledge representation and reasoning. Uncertainty and conflict resolution. Design of intelligent systems. Grammar-based, rule-based, and blackboard architectures. A project is required. Laboratory:two hours per week

2. which topics is Bo Wang competent in?

Here are the topics Bo Wang competent in.

Inverse: [http://dbpedia.org/resource/Multiplicative\\_inverse](http://dbpedia.org/resource/Multiplicative_inverse)

XML: <http://dbpedia.org/resource/XML>

Manning Publications: [http://dbpedia.org/resource/Manning\\_Publications](http://dbpedia.org/resource/Manning_Publications)

open source: [http://dbpedia.org/resource/Open-source\\_software](http://dbpedia.org/resource/Open-source_software)

open-source: [http://dbpedia.org/resource/Open-source\\_software](http://dbpedia.org/resource/Open-source_software)

algorithm: <http://dbpedia.org/resource/Algorithm>

case law: [http://dbpedia.org/resource/Case\\_law](http://dbpedia.org/resource/Case_law)

GATE: [http://dbpedia.org/resource/Graduate\\_Aptitude\\_Test\\_in\\_Engineering](http://dbpedia.org/resource/Graduate_Aptitude_Test_in_Engineering)

GATE: [http://dbpedia.org/resource/General\\_Architecture\\_for\\_Text\\_Engineering](http://dbpedia.org/resource/General_Architecture_for_Text_Engineering)

Macbeth: <http://dbpedia.org/resource/Macbeth>

UK: [http://dbpedia.org/resource/United\\_Kingdom](http://dbpedia.org/resource/United_Kingdom)

POS: [http://dbpedia.org/resource/Point\\_of\\_sale](http://dbpedia.org/resource/Point_of_sale)

POS: [http://dbpedia.org/resource/Part\\_of\\_speech](http://dbpedia.org/resource/Part_of_speech)

Morphological Analysis: [http://dbpedia.org/resource/Morphological\\_analysis\\_problem-solving](http://dbpedia.org/resource/Morphological_analysis_problem-solving)

lemma: <http://dbpedia.org/resource/Spikelet>

PDF: <http://dbpedia.org/resource/PDF>

incidence: [http://dbpedia.org/resource/Incidence\\_matrix](http://dbpedia.org/resource/Incidence_matrix)

Anthony Julius: [http://dbpedia.org/resource/Anthony\\_Julius](http://dbpedia.org/resource/Anthony_Julius)

Natural Language Processing (NLP): [http://dbpedia.org/resource/Natural\\_language\\_processing](http://dbpedia.org/resource/Natural_language_processing)

insurance: <http://dbpedia.org/resource/Insurance>

Brutus: [http://dbpedia.org/resource/Brutus\\_the\\_Younger](http://dbpedia.org/resource/Brutus_the_Younger)

lengths: [http://dbpedia.org/resource/Horse\\_length](http://dbpedia.org/resource/Horse_length)

lengths: <http://dbpedia.org/resource/Length>

Apache: [http://dbpedia.org/resource/The\\_Apache\\_Software\\_Foundation](http://dbpedia.org/resource/The_Apache_Software_Foundation)

Apache: [http://dbpedia.org/resource/Apache\\_HTTP\\_Server](http://dbpedia.org/resource/Apache_HTTP_Server)

database: <http://dbpedia.org/resource/Database>

Prabhakar Raghavan: [http://dbpedia.org/resource/Prabhakar\\_Raghavan](http://dbpedia.org/resource/Prabhakar_Raghavan)

Caesar: [http://dbpedia.org/resource/Julius\\_Caesar](http://dbpedia.org/resource/Julius_Caesar)

Hamlet: <http://dbpedia.org/resource/Hamlet>

L2 norm: [http://dbpedia.org/resource/Lp\\_space](http://dbpedia.org/resource/Lp_space)

Wuthering Heights: [http://dbpedia.org/resource/Wuthering\\_Heights](http://dbpedia.org/resource/Wuthering_Heights)

dog: <http://dbpedia.org/resource/Dog>

IBM: <http://dbpedia.org/resource/IBM>

verb: <http://dbpedia.org/resource/Verb>

HTML: <http://dbpedia.org/resource/HTML>  
high-dimensional space: <http://dbpedia.org/resource/Dimension>  
inflection: <http://dbpedia.org/resource/Inflection>  
Sheffield: <http://dbpedia.org/resource/Sheffield>  
dft: [http://dbpedia.org/resource/Discrete\\_Fourier\\_transform](http://dbpedia.org/resource/Discrete_Fourier_transform)  
cyclohexanedione: <http://dbpedia.org/resource/Cyclohexanedione>  
PyTorch: <http://dbpedia.org/resource/PyTorch>  
Othello: <http://dbpedia.org/resource/Othello>  
Information Extraction: [http://dbpedia.org/resource/Information\\_extraction](http://dbpedia.org/resource/Information_extraction)  
Calpurnia: [http://dbpedia.org/resource/Calpurnia\\_wife\\_of\\_Caesar](http://dbpedia.org/resource/Calpurnia_wife_of_Caesar)  
fMLP: <http://dbpedia.org/resource/N-Formylmethionine-leucyl-phenylalanine>  
UIMA: <http://dbpedia.org/resource/UIMA>  
POS tags: [http://dbpedia.org/resource/Brown\\_Corpus](http://dbpedia.org/resource/Brown_Corpus)  
LGPL: [http://dbpedia.org/resource/GNU\\_Lesser\\_General\\_Public\\_License](http://dbpedia.org/resource/GNU_Lesser_General_Public_License)  
NLTK: [http://dbpedia.org/resource/Natural\\_Language\\_Toolkit](http://dbpedia.org/resource/Natural_Language_Toolkit)  
plagiarism: <http://dbpedia.org/resource/Plagiarism>  
Keras: <http://dbpedia.org/resource/Keras>  
VSM: [http://dbpedia.org/resource/Vishisht\\_Seva\\_Medal](http://dbpedia.org/resource/Vishisht_Seva_Medal)  
qi: <http://dbpedia.org/resource/Qi>  
Cleopatra: <http://dbpedia.org/resource/Cleopatra>  
lexicon: <http://dbpedia.org/resource/Lexicon>  
Tokenization: [http://dbpedia.org/resource/Lexical\\_analysis](http://dbpedia.org/resource/Lexical_analysis)  
JAPE: [http://dbpedia.org/resource/Computational\\_humor](http://dbpedia.org/resource/Computational_humor)  
Max: [http://dbpedia.org/resource/Comet\\_Man](http://dbpedia.org/resource/Comet_Man)  
Max: [http://dbpedia.org/resource/Max\\_Branning](http://dbpedia.org/resource/Max_Branning)  
word segmentation: [http://dbpedia.org/resource/Text\\_segmentation](http://dbpedia.org/resource/Text_segmentation)  
Schütze: <http://dbpedia.org/resource/Schütze>  
grammar: <http://dbpedia.org/resource/Grammar>  
grammar: [http://dbpedia.org/resource/Formal\\_grammar](http://dbpedia.org/resource/Formal_grammar)  
Stanford: [http://dbpedia.org/resource/Stanford\\_University](http://dbpedia.org/resource/Stanford_University)

unit sphere: [http://dbpedia.org/resource/Unit\\_sphere](http://dbpedia.org/resource/Unit_sphere)  
Coreference: <http://dbpedia.org/resource/Coreference>  
pi: <http://dbpedia.org/resource/Pi>  
NLP: [http://dbpedia.org/resource/Natural\\_language\\_processing](http://dbpedia.org/resource/Natural_language_processing)  
log10: [http://dbpedia.org/resource/Common\\_logarithm](http://dbpedia.org/resource/Common_logarithm)  
vectors: [http://dbpedia.org/resource/Euclidean\\_vector](http://dbpedia.org/resource/Euclidean_vector)  
tf-idf: <http://dbpedia.org/resource/Tf-idf>  
named entities: [http://dbpedia.org/resource/Named-entity\\_recognition](http://dbpedia.org/resource/Named-entity_recognition)  
cosine similarity: [http://dbpedia.org/resource/Cosine\\_similarity](http://dbpedia.org/resource/Cosine_similarity)  
log2: [http://dbpedia.org/resource/Binary\\_logarithm](http://dbpedia.org/resource/Binary_logarithm)  
centroids: <http://dbpedia.org/resource/Centroid>  
training data: [http://dbpedia.org/resource/Training,\\_validation,\\_and\\_test\\_sets](http://dbpedia.org/resource/Training,_validation,_and_test_sets)  
feature vector: [http://dbpedia.org/resource/Feature\\_machine\\_learning](http://dbpedia.org/resource/Feature_machine_learning)  
F1: [http://dbpedia.org/resource/Formula\\_One](http://dbpedia.org/resource/Formula_One)  
calculator: <http://dbpedia.org/resource/Calculator>  
k-means: [http://dbpedia.org/resource/K-means\\_clustering](http://dbpedia.org/resource/K-means_clustering)  
Your Decision: [http://dbpedia.org/resource/Your\\_Decision](http://dbpedia.org/resource/Your_Decision)  
matplotlib: <http://dbpedia.org/resource/Matplotlib>  
subset: <http://dbpedia.org/resource/Subset>  
graph: [http://dbpedia.org/resource/Graph\\_database](http://dbpedia.org/resource/Graph_database)  
graph: [http://dbpedia.org/resource/Graph\\_theory](http://dbpedia.org/resource/Graph_theory)  
golf: <http://dbpedia.org/resource/Golf>  
decision tree: [http://dbpedia.org/resource/Decision\\_tree](http://dbpedia.org/resource/Decision_tree)  
classifier: [http://dbpedia.org/resource/Statistical\\_classification](http://dbpedia.org/resource/Statistical_classification)  
K-means: [http://dbpedia.org/resource/K-means\\_clustering](http://dbpedia.org/resource/K-means_clustering)  
Graphviz: <http://dbpedia.org/resource/Graphviz>  
visualization: [http://dbpedia.org/resource/Data\\_visualization](http://dbpedia.org/resource/Data_visualization)  
tree: <http://dbpedia.org/resource/Tree>  
fig: [http://dbpedia.org/resource/Common\\_fig](http://dbpedia.org/resource/Common_fig)

sklearn: <http://dbpedia.org/resource/Scikit-learn>  
Outlook: [http://dbpedia.org/resource/Microsoft\\_Outlook](http://dbpedia.org/resource/Microsoft_Outlook)  
feature space: [http://dbpedia.org/resource/Feature\\_machine\\_learning](http://dbpedia.org/resource/Feature_machine_learning)  
Tom Mitchell: [http://dbpedia.org/resource/Tom\\_M.\\_Mitchell](http://dbpedia.org/resource/Tom_M._Mitchell)  
Intuition: <http://dbpedia.org/resource/Intuition>  
medicine: <http://dbpedia.org/resource/Medicine>  
cholera: <http://dbpedia.org/resource/Cholera>  
data acquisition: [http://dbpedia.org/resource/Data\\_acquisition](http://dbpedia.org/resource/Data_acquisition)  
John Snow: [http://dbpedia.org/resource/John\\_Snow](http://dbpedia.org/resource/John_Snow)  
F5: [http://dbpedia.org/resource/Fujita\\_scale](http://dbpedia.org/resource/Fujita_scale)  
Shannon: [http://dbpedia.org/resource/River\\_Shannon](http://dbpedia.org/resource/River_Shannon)  
Ockham: [http://dbpedia.org/resource/William\\_of\\_Ockham](http://dbpedia.org/resource/William_of_Ockham)  
X6: [http://dbpedia.org/resource/BMW\\_X6](http://dbpedia.org/resource/BMW_X6)  
probability: [http://dbpedia.org/resource/Conditional\\_probability](http://dbpedia.org/resource/Conditional_probability)  
probability: <http://dbpedia.org/resource/Probability>  
Russell: [http://dbpedia.org/resource/Bertrand\\_Russell](http://dbpedia.org/resource/Bertrand_Russell)  
TP: [http://dbpedia.org/resource/Township\\_Canada](http://dbpedia.org/resource/Township_Canada)  
moustache: <http://dbpedia.org/resource/Moustache>  
Red Circle: [http://dbpedia.org/resource/Dark\\_Circle\\_Comics](http://dbpedia.org/resource/Dark_Circle_Comics)  
Outliers: <http://dbpedia.org/resource/Outlier>  
Essence: <http://dbpedia.org/resource/Essence>  
vector: [http://dbpedia.org/resource/Euclidean\\_vector](http://dbpedia.org/resource/Euclidean_vector)  
vector: [http://dbpedia.org/resource/Vector\\_space](http://dbpedia.org/resource/Vector_space)  
Bayes Classifier: [http://dbpedia.org/resource/Bayes\\_classifier](http://dbpedia.org/resource/Bayes_classifier)  
regression: [http://dbpedia.org/resource/Regression\\_analysis](http://dbpedia.org/resource/Regression_analysis)  
physician: <http://dbpedia.org/resource/Physician>  
inductive bias: [http://dbpedia.org/resource/Inductive\\_bias](http://dbpedia.org/resource/Inductive_bias)  
Time complexity: [http://dbpedia.org/resource/Time\\_complexity](http://dbpedia.org/resource/Time_complexity)  
X4: <http://dbpedia.org/resource/CXCR4>  
coin: <http://dbpedia.org/resource/Coin>

C4.5: [http://dbpedia.org/resource/C4.5\\_algorithm](http://dbpedia.org/resource/C4.5_algorithm)  
class F7: [http://dbpedia.org/resource/Milwaukee\\_Road\\_class\\_F7](http://dbpedia.org/resource/Milwaukee_Road_class_F7)  
disjoint sets: [http://dbpedia.org/resource/Disjoint\\_sets](http://dbpedia.org/resource/Disjoint_sets)  
Socrates: <http://dbpedia.org/resource/Socrates>  
bass: [http://dbpedia.org/resource/Bass\\_guitar](http://dbpedia.org/resource/Bass_guitar)  
heuristics: <http://dbpedia.org/resource/Heuristic>  
Type I error: [http://dbpedia.org/resource/Type\\_I\\_and\\_type\\_II\\_errors](http://dbpedia.org/resource/Type_I_and_type_II_errors)  
Essential Information: [http://dbpedia.org/resource/Ralph\\_Nader](http://dbpedia.org/resource/Ralph_Nader)  
Alison: [http://dbpedia.org/resource/Alison\\_DiLaurentis](http://dbpedia.org/resource/Alison_DiLaurentis)  
Netflix: <http://dbpedia.org/resource/Netflix>  
fair coin: [http://dbpedia.org/resource/Fair\\_coin](http://dbpedia.org/resource/Fair_coin)  
HP Labs: <http://dbpedia.org/resource/Hewlett-Packard>  
Voltaire: <http://dbpedia.org/resource/Voltaire>  
Thai: [http://dbpedia.org/resource/Thai\\_cuisine](http://dbpedia.org/resource/Thai_cuisine)  
class F4: [http://dbpedia.org/resource/GER\\_Class\\_M15](http://dbpedia.org/resource/GER_Class_M15)  
Nina: [http://dbpedia.org/resource/Nina\\_Girado](http://dbpedia.org/resource/Nina_Girado)  
Red Square: [http://dbpedia.org/resource/Red\\_Square](http://dbpedia.org/resource/Red_Square)  
salmon: <http://dbpedia.org/resource/Salmon>  
FM: [http://dbpedia.org/resource/FM\\_broadcasting](http://dbpedia.org/resource/FM_broadcasting)  
prior distribution: [http://dbpedia.org/resource/Prior\\_probability](http://dbpedia.org/resource/Prior_probability)  
cancer: <http://dbpedia.org/resource/Cancer>  
search engine: [http://dbpedia.org/resource/Web\\_search\\_engine](http://dbpedia.org/resource/Web_search_engine)  
Markedness: <http://dbpedia.org/resource/Markedness>  
MCC: [http://dbpedia.org/resource/Marylebone\\_Cricket\\_Club](http://dbpedia.org/resource/Marylebone_Cricket_Club)  
navigation: <http://dbpedia.org/resource/Navigation>  
PP: [http://dbpedia.org/resource/People's\\_Party\\_Spain](http://dbpedia.org/resource/People's_Party_Spain)  
tumor: <http://dbpedia.org/resource/Neoplasm>  
bookmaker: <http://dbpedia.org/resource/Bookmaker>  
function: <http://dbpedia.org/resource/Protein>  
function: [http://dbpedia.org/resource/Stochastic\\_process](http://dbpedia.org/resource/Stochastic_process)



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The surgeon: [http://dbpedia.org/resource/The\\_Surgeon](http://dbpedia.org/resource/The_Surgeon)  
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The goal: [http://dbpedia.org/resource/The\\_Goal\\_novel](http://dbpedia.org/resource/The_Goal_novel)  
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branching factor: [http://dbpedia.org/resource/Branching\\_factor](http://dbpedia.org/resource/Branching_factor)  
Sam Loyd: [http://dbpedia.org/resource/Sam\\_Loyd](http://dbpedia.org/resource/Sam_Loyd)  
chess: <http://dbpedia.org/resource/Chess>  
Depth-limited Search: [http://dbpedia.org/resource/Iterative\\_deepening\\_depth-first\\_search](http://dbpedia.org/resource/Iterative_deepening_depth-first_search)  
Heuristics: <http://dbpedia.org/resource/Heuristic>  
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Tetris: <http://dbpedia.org/resource/Tetris>

test function: [http://dbpedia.org/resource/Distribution\\_mathematics](http://dbpedia.org/resource/Distribution_mathematics)

Brute force search: [http://dbpedia.org/resource/Brute-force\\_search](http://dbpedia.org/resource/Brute-force_search)

closed list: [http://dbpedia.org/resource/Closed\\_list](http://dbpedia.org/resource/Closed_list)

A\* algorithm: [http://dbpedia.org/resource/A\\*\\_search\\_algorithm](http://dbpedia.org/resource/A*_search_algorithm)

n8: [http://dbpedia.org/resource/Rugby\\_union\\_positions](http://dbpedia.org/resource/Rugby_union_positions)

evaluation function: [http://dbpedia.org/resource/Evaluation\\_function](http://dbpedia.org/resource/Evaluation_function)

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Heureka: [http://dbpedia.org/resource/Heureka\\_science\\_center](http://dbpedia.org/resource/Heureka_science_center)

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lake: <http://dbpedia.org/resource/Lake>

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IEEE: [http://dbpedia.org/resource/Institute\\_of\\_Electrical\\_and\\_Electronics\\_Engineers](http://dbpedia.org/resource/Institute_of_Electrical_and_Electronics_Engineers)  
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Perceptrons: <http://dbpedia.org/resource/Perceptron>  
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human intelligence: [http://dbpedia.org/resource/Human\\_intelligence](http://dbpedia.org/resource/Human_intelligence)

toy-: [http://dbpedia.org/resource/Toy\\_theater](http://dbpedia.org/resource/Toy_theater)

Mitchell Kapor: [http://dbpedia.org/resource/Mitch\\_Kapor](http://dbpedia.org/resource/Mitch_Kapor)

consciousness: <http://dbpedia.org/resource/Consciousness>

ALPAC: <http://dbpedia.org/resource/ALPAC>

Lotus Development: [http://dbpedia.org/resource/Lotus\\_Software](http://dbpedia.org/resource/Lotus_Software)

OCR: [http://dbpedia.org/resource/Optical\\_character\\_recognition](http://dbpedia.org/resource/Optical_character_recognition)

Kramnik: [http://dbpedia.org/resource/Vladimir\\_Kramnik](http://dbpedia.org/resource/Vladimir_Kramnik)  
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apple: <http://dbpedia.org/resource/Apple>

shoe: <http://dbpedia.org/resource/Shoe>

Optical character recognition: [http://dbpedia.org/resource/Optical\\_character\\_recognition](http://dbpedia.org/resource/Optical_character_recognition)

perfume: <http://dbpedia.org/resource/Perfume>

Ontario: <http://dbpedia.org/resource/Ontario>

NP: [http://dbpedia.org/resource/Noun\\_phrase](http://dbpedia.org/resource/Noun_phrase)

sleep: <http://dbpedia.org/resource/Sleep>

NER: [http://dbpedia.org/resource/Nucleotide\\_excision\\_repair](http://dbpedia.org/resource/Nucleotide_excision_repair)

UN: [http://dbpedia.org/resource/United\\_Nations](http://dbpedia.org/resource/United_Nations)

Castro Theatre: [http://dbpedia.org/resource/Castro\\_Theatre](http://dbpedia.org/resource/Castro_Theatre)

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metal: [http://dbpedia.org/resource/Heavy\\_metal\\_music](http://dbpedia.org/resource/Heavy_metal_music)

musical instrument: [http://dbpedia.org/resource/Musical\\_instrument](http://dbpedia.org/resource/Musical_instrument)

LOC: [http://dbpedia.org/resource/Library\\_of\\_Congress](http://dbpedia.org/resource/Library_of_Congress)

zoophyte: <http://dbpedia.org/resource/Zoophyte>

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Falkland Islands: [http://dbpedia.org/resource/Falkland\\_Islands](http://dbpedia.org/resource/Falkland_Islands)

Potomac: [http://dbpedia.org/resource/Potomac\\_River](http://dbpedia.org/resource/Potomac_River)

elephant: <http://dbpedia.org/resource/Elephant>

Montreal: <http://dbpedia.org/resource/Montreal>

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General Motors: [http://dbpedia.org/resource/General\\_Motors](http://dbpedia.org/resource/General_Motors)

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Jurafsky: [http://dbpedia.org/resource/Daniel\\_Jurafsky](http://dbpedia.org/resource/Daniel_Jurafsky)

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ML: [http://dbpedia.org/resource/Machine\\_learning](http://dbpedia.org/resource/Machine_learning)

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California: <http://dbpedia.org/resource/California>  
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ReLU: [http://dbpedia.org/resource/Rectifier\\_neural\\_networks](http://dbpedia.org/resource/Rectifier_neural_networks)  
image classification: [http://dbpedia.org/resource/Computer\\_vision](http://dbpedia.org/resource/Computer_vision)  
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Toronto: <http://dbpedia.org/resource/Toronto>  
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Convolutional Neural Networks: [http://dbpedia.org/resource/Convolutional\\_neural\\_network](http://dbpedia.org/resource/Convolutional_neural_network)  
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feature detectors: [http://dbpedia.org/resource/Feature\\_detection\\_computer\\_vision](http://dbpedia.org/resource/Feature_detection_computer_vision)  
Computer Vision: [http://dbpedia.org/resource/Computer\\_vision](http://dbpedia.org/resource/Computer_vision)  
Ng: [http://dbpedia.org/resource/Andrew\\_Ng](http://dbpedia.org/resource/Andrew_Ng)  
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Open Access: [http://dbpedia.org/resource/Open\\_access](http://dbpedia.org/resource/Open_access)  
The features: [http://dbpedia.org/resource/The\\_Features](http://dbpedia.org/resource/The_Features)  
CNN: <http://dbpedia.org/resource/CNN>  
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grayscale: <http://dbpedia.org/resource/Grayscale>

Bayes' theorem: [http://dbpedia.org/resource/Bayes'\\_theorem](http://dbpedia.org/resource/Bayes'_theorem)

E3: [http://dbpedia.org/resource/Electronic\\_Entertainment\\_Expo](http://dbpedia.org/resource/Electronic_Entertainment_Expo)

referee: <http://dbpedia.org/resource/Referee>

spam filters: [http://dbpedia.org/resource/Email\\_filtering](http://dbpedia.org/resource/Email_filtering)

dumbo: <http://dbpedia.org/resource/Dumbo>

conditionally independent: [http://dbpedia.org/resource/Conditional\\_independence](http://dbpedia.org/resource/Conditional_independence)

meds": <http://dbpedia.org/resource/Hospital>

N sets: [http://dbpedia.org/resource/VicRail\\_N\\_type\\_carriage](http://dbpedia.org/resource/VicRail_N_type_carriage)

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Conditional Probability: [http://dbpedia.org/resource/Conditional\\_probability](http://dbpedia.org/resource/Conditional_probability)

ham: <http://dbpedia.org/resource/Ham>

trail: <http://dbpedia.org/resource/Trail>

computer program: [http://dbpedia.org/resource/Computer\\_program](http://dbpedia.org/resource/Computer_program)

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Toothache: <http://dbpedia.org/resource/Toothache>

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Joint probability distribution: [http://dbpedia.org/resource/Joint\\_probability\\_distribution](http://dbpedia.org/resource/Joint_probability_distribution)

The evidence: [http://dbpedia.org/resource/The\\_Evidence\\_TV\\_series](http://dbpedia.org/resource/The_Evidence_TV_series)



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X3: [http://dbpedia.org/resource/BMW\\_X3](http://dbpedia.org/resource/BMW_X3)  
rerun: <http://dbpedia.org/resource/Rerun>  
Pay attention: [http://dbpedia.org/resource/Pay\\_Attention](http://dbpedia.org/resource/Pay_Attention)  
false negatives: [http://dbpedia.org/resource/False\\_positives\\_and\\_false\\_negatives](http://dbpedia.org/resource/False_positives_and_false_negatives)  
Test: [http://dbpedia.org/resource/Test\\_cricket](http://dbpedia.org/resource/Test_cricket)  
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Perceptron: <http://dbpedia.org/resource/Perceptron>

Wikipedia: [http://dbpedia.org/resource/Main\\_Page](http://dbpedia.org/resource/Main_Page)

Wikipedia: <http://dbpedia.org/resource/Wikipedia>

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Gail: [http://dbpedia.org/resource/Gail\\_McIntyre](http://dbpedia.org/resource/Gail_McIntyre)

epoch: <http://dbpedia.org/resource/Epoch>

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false positive: [http://dbpedia.org/resource/False\\_positives\\_and\\_false\\_negatives](http://dbpedia.org/resource/False_positives_and_false_negatives)

synapses: <http://dbpedia.org/resource/Synapse>

W13: [http://dbpedia.org/resource/W\\_postcode\\_area](http://dbpedia.org/resource/W_postcode_area)

W23: [http://dbpedia.org/resource/W19\\_nuclear\\_artillery\\_shell](http://dbpedia.org/resource/W19_nuclear_artillery_shell)

Handwritten: <http://dbpedia.org/resource/Handwriting>

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Backpropagation: <http://dbpedia.org/resource/Backpropagation>

decision boundaries: [http://dbpedia.org/resource/Decision\\_boundary](http://dbpedia.org/resource/Decision_boundary)

SGD: [http://dbpedia.org/resource/Singapore\\_dollar](http://dbpedia.org/resource/Singapore_dollar)

XOR: [http://dbpedia.org/resource/Exclusive\\_or](http://dbpedia.org/resource/Exclusive_or)

rule-based system: [http://dbpedia.org/resource/Rule-based\\_machine\\_translation](http://dbpedia.org/resource/Rule-based_machine_translation)

nonlinear: [http://dbpedia.org/resource/Nonlinear\\_system](http://dbpedia.org/resource/Nonlinear_system)

stochastic: [http://dbpedia.org/resource/Stochastic\\_optimization](http://dbpedia.org/resource/Stochastic_optimization)

Gallant: [http://dbpedia.org/resource/Gallant\\_singer](http://dbpedia.org/resource/Gallant_singer)

ESN: [http://dbpedia.org/resource/Electronic\\_serial\\_number](http://dbpedia.org/resource/Electronic_serial_number)

Artificial neural network: [http://dbpedia.org/resource/Artificial\\_neural\\_network](http://dbpedia.org/resource/Artificial_neural_network)

linear predictor function: [http://dbpedia.org/resource/Linear\\_predictor\\_function](http://dbpedia.org/resource/Linear_predictor_function)

The algorithm: [http://dbpedia.org/resource/The\\_Algorithm](http://dbpedia.org/resource/The_Algorithm)

Spiking neural network: [http://dbpedia.org/resource/Spiking\\_neural\\_network](http://dbpedia.org/resource/Spiking_neural_network)

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maximum norm: [http://dbpedia.org/resource/Uniform\\_norm](http://dbpedia.org/resource/Uniform_norm)  
History 2: [http://dbpedia.org/resource/H2\\_A&E\\_Networks](http://dbpedia.org/resource/H2_A&E_Networks)  
logistic regression: [http://dbpedia.org/resource/Logistic\\_regression](http://dbpedia.org/resource/Logistic_regression)  
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NeurIPS: [http://dbpedia.org/resource/Conference\\_on\\_Neural\\_Information\\_Processing\\_Systems](http://dbpedia.org/resource/Conference_on_Neural_Information_Processing_Systems)  
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ArXiv: <http://dbpedia.org/resource/ArXiv>  
Collins: <http://dbpedia.org/resource/HarperCollins>  
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prune: [http://dbpedia.org/resource/Decision\\_tree\\_pruning](http://dbpedia.org/resource/Decision_tree_pruning)  
prune: <http://dbpedia.org/resource/Prune>  
H: <http://dbpedia.org/resource/Hydrogen>  
alpha-beta pruning: [http://dbpedia.org/resource/Alpha-beta\\_pruning](http://dbpedia.org/resource/Alpha-beta_pruning)  
complete game: [http://dbpedia.org/resource/Complete\\_game](http://dbpedia.org/resource/Complete_game)  
Stratego: <http://dbpedia.org/resource/Stratego>  
Zero-Sum Game: [http://dbpedia.org/resource/Zero-sum\\_game](http://dbpedia.org/resource/Zero-sum_game)  
GB: <http://dbpedia.org/resource/Gigabyte>  
Exhaustive search: [http://dbpedia.org/resource/Brute-force\\_search](http://dbpedia.org/resource/Brute-force_search)  
RISC: [http://dbpedia.org/resource/Reduced\\_instruction\\_set\\_computer](http://dbpedia.org/resource/Reduced_instruction_set_computer)  
The Prisoner: [http://dbpedia.org/resource/The\\_Prisoner](http://dbpedia.org/resource/The_Prisoner)  
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cosine: [http://dbpedia.org/resource/Trigonometric\\_functions](http://dbpedia.org/resource/Trigonometric_functions)  
clf: [http://dbpedia.org/resource/Chlorine\\_monofluoride](http://dbpedia.org/resource/Chlorine_monofluoride)  
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Eastern Orthodox: [http://dbpedia.org/resource/Eastern\\_Orthodox\\_Church](http://dbpedia.org/resource/Eastern_Orthodox_Church)  
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EOS: [http://dbpedia.org/resource/Asteroid\\_family](http://dbpedia.org/resource/Asteroid_family)  
Daniel Jurafsky: [http://dbpedia.org/resource/Daniel\\_Jurafsky](http://dbpedia.org/resource/Daniel_Jurafsky)  
Enzyme: <http://dbpedia.org/resource/Enzyme>  
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Preposition: [http://dbpedia.org/resource/Preposition\\_and\\_postposition](http://dbpedia.org/resource/Preposition_and_postposition)  
finite-state machine: [http://dbpedia.org/resource/Finite-state\\_machine](http://dbpedia.org/resource/Finite-state_machine)  
confidentiality: <http://dbpedia.org/resource/Confidentiality>  
noun: <http://dbpedia.org/resource/Noun>  
Lucene: [http://dbpedia.org/resource/Apache\\_Lucene](http://dbpedia.org/resource/Apache_Lucene)  
wild type: [http://dbpedia.org/resource/Wild\\_type](http://dbpedia.org/resource/Wild_type)  
NEs: [http://dbpedia.org/resource/Nintendo\\_Entertainment\\_System](http://dbpedia.org/resource/Nintendo_Entertainment_System)  
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affinity chromatography: [http://dbpedia.org/resource/Affinity\\_chromatography](http://dbpedia.org/resource/Affinity_chromatography)  
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knowledge discovery: [http://dbpedia.org/resource/Knowledge\\_extraction](http://dbpedia.org/resource/Knowledge_extraction)  
Text Mining: [http://dbpedia.org/resource/Text\\_mining](http://dbpedia.org/resource/Text_mining)  
spaCy: <http://dbpedia.org/resource/SpaCy>  
logic: <http://dbpedia.org/resource/Logic>  
dividend: <http://dbpedia.org/resource/Dividend>  
city: <http://dbpedia.org/resource/City>  
Beginners: <http://dbpedia.org/resource/Beginners>



SpaCy: <http://dbpedia.org/resource/SpaCy>  
dollar sign: [http://dbpedia.org/resource/Dollar\\_sign](http://dbpedia.org/resource/Dollar_sign)  
API Key: [http://dbpedia.org/resource/Application\\_programming\\_interface\\_key](http://dbpedia.org/resource/Application_programming_interface_key)  
FR: [http://dbpedia.org/resource/Flag\\_of\\_France](http://dbpedia.org/resource/Flag_of_France)  
basics: [http://dbpedia.org/resource/British\\_Association\\_for\\_Immediate\\_Care](http://dbpedia.org/resource/British_Association_for_Immediate_Care)  
JSON: <http://dbpedia.org/resource/JSON>  
proper noun: [http://dbpedia.org/resource/Proper\\_noun](http://dbpedia.org/resource/Proper_noun)  
Regular Expressions: [http://dbpedia.org/resource/Regular\\_expression](http://dbpedia.org/resource/Regular_expression)  
LinkedIn: <http://dbpedia.org/resource/LinkedIn>  
McGill University: [http://dbpedia.org/resource/McGill\\_University](http://dbpedia.org/resource/McGill_University)  
Facebook: <http://dbpedia.org/resource/Facebook>  
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Knowledge Navigator: [http://dbpedia.org/resource/Knowledge\\_Navigator](http://dbpedia.org/resource/Knowledge_Navigator)  
metamorphosis: <http://dbpedia.org/resource/Metamorphosis>  
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Stuart Russell: [http://dbpedia.org/resource/Stuart\\_J.\\_Russell](http://dbpedia.org/resource/Stuart_J._Russell)  
ecosystem: <http://dbpedia.org/resource/Ecosystem>  
CLOUD: [http://dbpedia.org/resource/CLOUD\\_experiment](http://dbpedia.org/resource/CLOUD_experiment)  
skolemization: [http://dbpedia.org/resource/Skolem\\_normal\\_form](http://dbpedia.org/resource/Skolem_normal_form)  
GeoNames: <http://dbpedia.org/resource/GeoNames>  
WWW: [http://dbpedia.org/resource/World\\_Wide\\_Web](http://dbpedia.org/resource/World_Wide_Web)  
RN10: [http://dbpedia.org/resource/Route\\_nationale\\_10](http://dbpedia.org/resource/Route_nationale_10)  
WordNet: <http://dbpedia.org/resource/WordNet>  
OWL: [http://dbpedia.org/resource/Web\\_Ontology\\_Language](http://dbpedia.org/resource/Web_Ontology_Language)  
social media: [http://dbpedia.org/resource/Social\\_media](http://dbpedia.org/resource/Social_media)  
DeepDive: <http://dbpedia.org/resource/Transformers>  
Apple: [http://dbpedia.org/resource/Apple\\_Inc](http://dbpedia.org/resource/Apple_Inc)  
MAX: [http://dbpedia.org/resource/MAX\\_Light\\_Rail](http://dbpedia.org/resource/MAX_Light_Rail)  
Leonardo da Vinci: [http://dbpedia.org/resource/Leonardo\\_da\\_Vinci](http://dbpedia.org/resource/Leonardo_da_Vinci)  
reification: [http://dbpedia.org/resource/Abstract\\_and\\_concrete](http://dbpedia.org/resource/Abstract_and_concrete)

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spruce: <http://dbpedia.org/resource/Spruce>  
Hilton: [http://dbpedia.org/resource/Hilton\\_Worldwide](http://dbpedia.org/resource/Hilton_Worldwide)  
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Open Graph Protocol: [http://dbpedia.org/resource/Facebook\\_Platform](http://dbpedia.org/resource/Facebook_Platform)  
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Meat Loaf: [http://dbpedia.org/resource/Meat\\_Loaf](http://dbpedia.org/resource/Meat_Loaf)  
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relational database management system: [http://dbpedia.org/resource/Relational\\_database](http://dbpedia.org/resource/Relational_database)  
Mumbai: <http://dbpedia.org/resource/Mumbai>  
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semantic query: [http://dbpedia.org/resource/Semantic\\_query](http://dbpedia.org/resource/Semantic_query)  
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The takeaway: [http://dbpedia.org/resource/The\\_Takeaway](http://dbpedia.org/resource/The_Takeaway)  
Congress: [http://dbpedia.org/resource/United\\_States\\_Congress](http://dbpedia.org/resource/United_States_Congress)  
momentum: <http://dbpedia.org/resource/Momentum>  
census: [http://dbpedia.org/resource/United\\_States\\_Census](http://dbpedia.org/resource/United_States_Census)

Yale University Library: [http://dbpedia.org/resource/Yale\\_University\\_Library](http://dbpedia.org/resource/Yale_University_Library)

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acronym: [http://dbpedia.org/resource/Recursive\\_acronym](http://dbpedia.org/resource/Recursive_acronym)

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Pros & Cons: [http://dbpedia.org/resource/Pros\\_&\\_Cons](http://dbpedia.org/resource/Pros_&_Cons)  
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sailboat: <http://dbpedia.org/resource/Sailboat>  
snow: <http://dbpedia.org/resource/Snow>  
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PCA: [http://dbpedia.org/resource/Principal\\_component\\_analysis](http://dbpedia.org/resource/Principal_component_analysis)  
yeti: <http://dbpedia.org/resource/Yeti>  
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Pima: [http://dbpedia.org/resource/Pima\\_people](http://dbpedia.org/resource/Pima_people)  
France: <http://dbpedia.org/resource/France>  
sand: <http://dbpedia.org/resource/Sand>  
Elvis: [http://dbpedia.org/resource/Elvis\\_Presley](http://dbpedia.org/resource/Elvis_Presley)  
homo economicus: [http://dbpedia.org/resource/Homo\\_economicus](http://dbpedia.org/resource/Homo_economicus)  
Germany: [http://dbpedia.org/resource/Nazi\\_Germany](http://dbpedia.org/resource/Nazi_Germany)  
insulin: <http://dbpedia.org/resource/Insulin>  
NSF: [http://dbpedia.org/resource/National\\_Science\\_Foundation](http://dbpedia.org/resource/National_Science_Foundation)  
Paradise Papers: [http://dbpedia.org/resource/Paradise\\_Papers](http://dbpedia.org/resource/Paradise_Papers)  
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HBO: <http://dbpedia.org/resource/HBO>  
API.ai: <http://dbpedia.org/resource/Dialogflow>  
Dialog: [http://dbpedia.org/resource/ProQuest\\_Dialog](http://dbpedia.org/resource/ProQuest_Dialog)  
Resident Evil: [http://dbpedia.org/resource/Resident\\_Evil](http://dbpedia.org/resource/Resident_Evil)  
Artificial Intelligence Markup Language: <http://dbpedia.org/resource/AIML>  
Use Case: [http://dbpedia.org/resource/Use\\_case](http://dbpedia.org/resource/Use_case)  
Cimiano: <http://dbpedia.org/resource/Cimiano>  
vertical bar: [http://dbpedia.org/resource/Vertical\\_bar](http://dbpedia.org/resource/Vertical_bar)  
Zootopia: <http://dbpedia.org/resource/Zootopia>  
postback: <http://dbpedia.org/resource/Postback>  
YOH: [http://dbpedia.org/resource/Young\\_Out\\_Here](http://dbpedia.org/resource/Young_Out_Here)  
Sony: <http://dbpedia.org/resource/Sony>  
Mitsuki: [http://dbpedia.org/resource/Mitsuki\\_Naruto](http://dbpedia.org/resource/Mitsuki_Naruto)  
Google Search: [http://dbpedia.org/resource/Google\\_Search](http://dbpedia.org/resource/Google_Search)  
World Wide Web: [http://dbpedia.org/resource/World\\_Wide\\_Web](http://dbpedia.org/resource/World_Wide_Web)  
Morton: [http://dbpedia.org/resource/Greenock\\_Morton\\_F.C.](http://dbpedia.org/resource/Greenock_Morton_F.C.)  
ROSA: <http://dbpedia.org/resource/ROSA>  
regressor: [http://dbpedia.org/resource/Dependent\\_and\\_independent\\_variables](http://dbpedia.org/resource/Dependent_and_independent_variables)  
TF-IDF: <http://dbpedia.org/resource/Tf-idf>

3. which course teaches a knowledge graph?

COMP6741 Intelligent Systems introduces 12 times

COMP6721 Introduction to Artificial Intelligence introduces 4 times

4. which topics are covered in COMP 6721?

Inverse: [http://dbpedia.org/resource/Multiplicative\\_inverse](http://dbpedia.org/resource/Multiplicative_inverse) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

XML: <http://dbpedia.org/resource/XML> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Manning Publications: [http://dbpedia.org/resource/Manning\\_Publications](http://dbpedia.org/resource/Manning_Publications) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

open source: [http://dbpedia.org/resource/Open-source\\_software](http://dbpedia.org/resource/Open-source_software) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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algorithm: <http://dbpedia.org/resource/Algorithm> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

case law: [http://dbpedia.org/resource/Case\\_law](http://dbpedia.org/resource/Case_law) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

GATE: [http://dbpedia.org/resource/Graduate\\_Aptitude\\_Test\\_in\\_Engineering](http://dbpedia.org/resource/Graduate_Aptitude_Test_in_Engineering) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

GATE: [http://dbpedia.org/resource/General\\_Architecture\\_for\\_Text\\_Engineering](http://dbpedia.org/resource/General_Architecture_for_Text_Engineering) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Macbeth: <http://dbpedia.org/resource/Macbeth> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

UK: [http://dbpedia.org/resource/United\\_Kingdom](http://dbpedia.org/resource/United_Kingdom) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

POS: [http://dbpedia.org/resource/Point\\_of\\_sale](http://dbpedia.org/resource/Point_of_sale) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

POS: [http://dbpedia.org/resource/Part\\_of\\_speech](http://dbpedia.org/resource/Part_of_speech) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Morphological Analysis: [http://dbpedia.org/resource/Morphological\\_analysis\\_problem-solving](http://dbpedia.org/resource/Morphological_analysis_problem-solving) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

lemma: <http://dbpedia.org/resource/Spikelet> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

PDF: <http://dbpedia.org/resource/PDF> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

incidence: [http://dbpedia.org/resource/Incidence\\_matrix](http://dbpedia.org/resource/Incidence_matrix) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Anthony Julius: [http://dbpedia.org/resource/Anthony\\_Julius](http://dbpedia.org/resource/Anthony_Julius) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Natural Language Processing (NLP): [http://dbpedia.org/resource/Natural\\_language\\_processing](http://dbpedia.org/resource/Natural_language_processing) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

insurance: <http://dbpedia.org/resource/Insurance> in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Brutus: [http://dbpedia.org/resource/Brutus\\_the\\_Younger](http://dbpedia.org/resource/Brutus_the_Younger) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

lengths: [http://dbpedia.org/resource/Horse\\_length](http://dbpedia.org/resource/Horse_length) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

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Apache: [http://dbpedia.org/resource/The\\_Apache\\_Software\\_Foundation](http://dbpedia.org/resource/The_Apache_Software_Foundation) in slide 11: file:///c:/unibot/comp6721/Slides/slidell.pdf

Apache: [http://dbpedia.org/resource/Apache\\_HTTP\\_Server](http://dbpedia.org/resource/Apache_HTTP_Server) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

database: <http://dbpedia.org/resource/Database> in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Prabhakar Raghavan: [http://dbpedia.org/resource/Prabhakar\\_Raghavan](http://dbpedia.org/resource/Prabhakar_Raghavan) in slide 11: file:///c:/unibot/comp6721/Slides/slidell.pdf

Caesar: [http://dbpedia.org/resource/Julius\\_Caesar](http://dbpedia.org/resource/Julius_Caesar) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Hamlet: <http://dbpedia.org/resource/Hamlet> in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

L2 norm: [http://dbpedia.org/resource/Lp\\_space](http://dbpedia.org/resource/Lp_space) in slidell: file:///c:/unibot/comp6721/Slides/slidell.pdf

Wuthering Heights: [http://dbpedia.org/resource/Wuthering\\_Heights](http://dbpedia.org/resource/Wuthering_Heights) in slide 1: file:///c:/unibot/comp6721/Slides/slidell.pdf

dog: <http://dbpedia.org/resource/Dog> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

IBM: <http://dbpedia.org/resource/IBM> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

verb: <http://dbpedia.org/resource/Verb> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

HTML: <http://dbpedia.org/resource/HTML> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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inflection: <http://dbpedia.org/resource/Inflection> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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dft: [http://dbpedia.org/resource/Discrete\\_Fourier\\_transform](http://dbpedia.org/resource/Discrete_Fourier_transform) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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Calpurnia: [http://dbpedia.org/resource/Calpurnia\\_wife\\_of\\_Caesar](http://dbpedia.org/resource/Calpurnia_wife_of_Caesar) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

fMLP: <http://dbpedia.org/resource/N-Formylmethionine-leucyl-phenylalanine> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

UIMA: <http://dbpedia.org/resource/UIMA> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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LGPL: [http://dbpedia.org/resource/GNU\\_Lesser\\_General\\_Public\\_License](http://dbpedia.org/resource/GNU_Lesser_General_Public_License) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

NLTK: [http://dbpedia.org/resource/Natural\\_Language\\_Toolkit](http://dbpedia.org/resource/Natural_Language_Toolkit) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

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Cleopatra: <http://dbpedia.org/resource/Cleopatra> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

lexicon: <http://dbpedia.org/resource/Lexicon> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Tokenization: [http://dbpedia.org/resource/Lexical\\_analysis](http://dbpedia.org/resource/Lexical_analysis) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

JAPE: [http://dbpedia.org/resource/Computational\\_humor](http://dbpedia.org/resource/Computational_humor) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Max: [http://dbpedia.org/resource/Comet\\_Man](http://dbpedia.org/resource/Comet_Man) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Max: [http://dbpedia.org/resource/Max\\_Branning](http://dbpedia.org/resource/Max_Branning) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

word segmentation: [http://dbpedia.org/resource/Text\\_segmentation](http://dbpedia.org/resource/Text_segmentation) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Schütze: <http://dbpedia.org/resource/Schütze> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>



grammar: <http://dbpedia.org/resource/Grammar> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

grammar: [http://dbpedia.org/resource/Formal\\_grammar](http://dbpedia.org/resource/Formal_grammar) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Stanford: [http://dbpedia.org/resource/Stanford\\_University](http://dbpedia.org/resource/Stanford_University) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

unit sphere: [http://dbpedia.org/resource/Unit\\_sphere](http://dbpedia.org/resource/Unit_sphere) in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Coreference: <http://dbpedia.org/resource/Coreference> in slidell: <file:///c:/unibot/comp6721/Slides/slidell.pdf>

Inverse: [http://dbpedia.org/resource/Multiplicative\\_inverse](http://dbpedia.org/resource/Multiplicative_inverse) in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

pi: <http://dbpedia.org/resource/Pi> in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

dog: <http://dbpedia.org/resource/Dog> in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

NLP: [http://dbpedia.org/resource/Natural\\_language\\_processing](http://dbpedia.org/resource/Natural_language_processing) in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

log10: [http://dbpedia.org/resource/Common\\_logarithm](http://dbpedia.org/resource/Common_logarithm) in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

qi: <http://dbpedia.org/resource/Qi> in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

vectors: [http://dbpedia.org/resource/Euclidean\\_vector](http://dbpedia.org/resource/Euclidean_vector) in worksheet10: <file:///c:/unibot/comp6721/Worksheet/worksheet10.pdf>

algorithm: <http://dbpedia.org/resource/Algorithm> in lab11: <file:///c:/unibot/comp6721/Labs/Lab11.pdf>

tf-idf: <http://dbpedia.org/resource/Tf-idf> in lab11: <file:///c:/unibot/comp6721/Labs/Lab11.pdf>

named entities: [http://dbpedia.org/resource/Named-entity\\_recognition](http://dbpedia.org/resource/Named-entity_recognition) in lab11: <file:///c:/unibot/comp6721/Labs/Lab11.pdf>

cosine similarity: [http://dbpedia.org/resource/Cosine\\_similarity](http://dbpedia.org/resource/Cosine_similarity) in lab11: <file:///c:/unibot/comp6721/Labs/Lab11.pdf>

log2: [http://dbpedia.org/resource/Binary\\_logarithm](http://dbpedia.org/resource/Binary_logarithm) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

centroids: <http://dbpedia.org/resource/Centroid> in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

training data: [http://dbpedia.org/resource/Training,\\_validation,\\_and\\_test\\_sets](http://dbpedia.org/resource/Training,_validation,_and_test_sets) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

feature vector: [http://dbpedia.org/resource/Feature\\_machine\\_learning](http://dbpedia.org/resource/Feature_machine_learning) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

log10: [http://dbpedia.org/resource/Common\\_logarithm](http://dbpedia.org/resource/Common_logarithm) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

F1: [http://dbpedia.org/resource/Formula\\_One](http://dbpedia.org/resource/Formula_One) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

calculator: <http://dbpedia.org/resource/Calculator> in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

k-means: [http://dbpedia.org/resource/K-means\\_clustering](http://dbpedia.org/resource/K-means_clustering) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

Your Decision: [http://dbpedia.org/resource/Your\\_Decision](http://dbpedia.org/resource/Your_Decision) in worksheet04: <file:///c:/unibot/comp6721/Worksheet/worksheet04.pdf>

matplotlib: <http://dbpedia.org/resource/Matplotlib> in lab05: <file:///c:/unibot/comp6721/Labs/Lab05.pdf>

subset: <http://dbpedia.org/resource/Subset> in lab05: <file:///c:/unibot/comp6721/Labs/Lab05.pdf>

centroids: <http://dbpedia.org/resource/Centroid> in lab05: <file:///c:/unibot/comp6721/Labs/Lab05.pdf>

graph: [http://dbpedia.org/resource/Graph\\_database](http://dbpedia.org/resource/Graph_database) in lab05: <file:///c:/unibot/comp6721/Labs/Lab05.pdf>

graph: [http://dbpedia.org/resource/Graph\\_theory](http://dbpedia.org/resource/Graph_theory) in lab05: <file:///c:/unibot/comp6721/Labs/Lab05.pdf>

golf: <http://dbpedia.org/resource/Golf> in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

decision tree: [http://dbpedia.org/resource/Decision\\_tree](http://dbpedia.org/resource/Decision_tree) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

training data: [http://dbpedia.org/resource/Training,\\_validation,\\_and\\_test\\_sets](http://dbpedia.org/resource/Training,_validation,_and_test_sets) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

classifier: [http://dbpedia.org/resource/Statistical\\_classification](http://dbpedia.org/resource/Statistical_classification) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

K-means: [http://dbpedia.org/resource/K-means\\_clustering](http://dbpedia.org/resource/K-means_clustering) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

Graphviz: <http://dbpedia.org/resource/Graphviz> in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

F1: [http://dbpedia.org/resource/Formula\\_One](http://dbpedia.org/resource/Formula_One) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

visualization: [http://dbpedia.org/resource/Data\\_visualization](http://dbpedia.org/resource/Data_visualization) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

tree: <http://dbpedia.org/resource/Tree> in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

fig: [http://dbpedia.org/resource/Common\\_fig](http://dbpedia.org/resource/Common_fig) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

sklearn: <http://dbpedia.org/resource/Scikit-learn> in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

Outlook: [http://dbpedia.org/resource/Microsoft\\_Outlook](http://dbpedia.org/resource/Microsoft_Outlook) in lab05: file:///c:/unibot/comp6721/Labs/Lab05.pdf

feature space: [http://dbpedia.org/resource/Feature\\_machine\\_learning](http://dbpedia.org/resource/Feature_machine_learning) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

Tom Mitchell: [http://dbpedia.org/resource/Tom\\_M.\\_Mitchell](http://dbpedia.org/resource/Tom_M._Mitchell) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

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data acquisition: [http://dbpedia.org/resource/Data\\_acquisition](http://dbpedia.org/resource/Data_acquisition) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

John Snow: [http://dbpedia.org/resource/John\\_Snow](http://dbpedia.org/resource/John_Snow) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

F5: [http://dbpedia.org/resource/Fujita\\_scale](http://dbpedia.org/resource/Fujita_scale) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

Shannon: [http://dbpedia.org/resource/River\\_Shannon](http://dbpedia.org/resource/River_Shannon) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

Ockham: [http://dbpedia.org/resource/William\\_of\\_Ockham](http://dbpedia.org/resource/William_of_Ockham) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

decision tree: [http://dbpedia.org/resource/Decision\\_tree](http://dbpedia.org/resource/Decision_tree) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

X6: [http://dbpedia.org/resource/BMW\\_X6](http://dbpedia.org/resource/BMW_X6) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

probability: [http://dbpedia.org/resource/Conditional\\_probability](http://dbpedia.org/resource/Conditional_probability) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

probability: <http://dbpedia.org/resource/Probability> in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

Russell: [http://dbpedia.org/resource/Bertrand\\_Russell](http://dbpedia.org/resource/Bertrand_Russell) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

TP: [http://dbpedia.org/resource/Township\\_Canada](http://dbpedia.org/resource/Township_Canada) in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

moustache: <http://dbpedia.org/resource/Moustache> in slide05: <file:///c:/unibot/comp6721/Slides/slide05.pdf>

Red Circle: [http://dbpedia.org/resource/Dark\\_Circle\\_Comics](http://dbpedia.org/resource/Dark_Circle_Comics) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

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Essence: <http://dbpedia.org/resource/Essence> in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

vector: [http://dbpedia.org/resource/Euclidean\\_vector](http://dbpedia.org/resource/Euclidean_vector) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

vector: [http://dbpedia.org/resource/Vector\\_space](http://dbpedia.org/resource/Vector_space) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

Bayes Classifier: [http://dbpedia.org/resource/Bayes\\_classifier](http://dbpedia.org/resource/Bayes_classifier) in slide05: file:///c:/unibot/comp6721/Slides/slide05.pdf

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Battleship: <http://dbpedia.org/resource/Battleship> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Ke Jie: [http://dbpedia.org/resource/Ke\\_Jie](http://dbpedia.org/resource/Ke_Jie) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

CPU: [http://dbpedia.org/resource/Central\\_processing\\_unit](http://dbpedia.org/resource/Central_processing_unit) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

neurons: <http://dbpedia.org/resource/Neuron> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

neurons: [http://dbpedia.org/resource/Artificial\\_neuron](http://dbpedia.org/resource/Artificial_neuron) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

neurons: [http://dbpedia.org/resource/Artificial\\_neural\\_network](http://dbpedia.org/resource/Artificial_neural_network) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Backgammon: <http://dbpedia.org/resource/Backgammon> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Pruning: <http://dbpedia.org/resource/Pruning> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Othello: <http://dbpedia.org/resource/Othello> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Nim: <http://dbpedia.org/resource/Nim> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

EXPECTIMINIMAX: <http://dbpedia.org/resource/Expectiminimax> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

dice: <http://dbpedia.org/resource/Dice> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

five-game match: [http://dbpedia.org/resource/AlphaGo\\_versus\\_Lee\\_Sedol](http://dbpedia.org/resource/AlphaGo_versus_Lee_Sedol) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Deep Junior: [http://dbpedia.org/resource/Junior\\_chess](http://dbpedia.org/resource/Junior_chess) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Monte Carlo tree search: [http://dbpedia.org/resource/Monte\\_Carlo\\_tree\\_search](http://dbpedia.org/resource/Monte_Carlo_tree_search) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Marion Tinsley: [http://dbpedia.org/resource/Marion\\_Tinsley](http://dbpedia.org/resource/Marion_Tinsley) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Monopoly: <http://dbpedia.org/resource/Monopoly> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Max: [http://dbpedia.org/resource/Comet\\_Man](http://dbpedia.org/resource/Comet_Man) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Max: [http://dbpedia.org/resource/Max\\_Branning](http://dbpedia.org/resource/Max_Branning) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

AlphaGo Zero: [http://dbpedia.org/resource/AlphaGo\\_Zero](http://dbpedia.org/resource/AlphaGo_Zero) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

heuristic function: [http://dbpedia.org/resource/Heuristic\\_computer\\_science](http://dbpedia.org/resource/Heuristic_computer_science) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Lee Se-dol: [http://dbpedia.org/resource/Lee\\_Sedol](http://dbpedia.org/resource/Lee_Sedol) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Kasparov: [http://dbpedia.org/resource/Garry\\_Kasparov](http://dbpedia.org/resource/Garry_Kasparov) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

VLSI: [http://dbpedia.org/resource/Very\\_Large\\_Scale\\_Integration](http://dbpedia.org/resource/Very_Large_Scale_Integration) in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

Alberta: <http://dbpedia.org/resource/Alberta> in slide03: <file:///c:/unibot/comp6721/Slides/slide03.pdf>

algorithm: <http://dbpedia.org/resource/Algorithm> in worksheet02: <file:///c:/unibot/comp6721/Worksheet/worksheet02.pdf>

root: [http://dbpedia.org/resource/Zero\\_of\\_a\\_function](http://dbpedia.org/resource/Zero_of_a_function) in worksheet02: <file:///c:/unibot/comp6721/Worksheet/worksheet02.pdf>

5. what is Bo Wang' s Email?

Bo Wang' s email is [bowang@condordia.ca](mailto:bowang@condordia.ca)

6. what are the suggested readings for COMP 6741?

Here are the suggested reading' s URL:

<https://newscatcherapi.com/blog/spacy-matcher-mining-financial-stock-news>

<https://techblog.wikimedia.org/2020/03/24/computational-knowledge-wikidata-wikidata-query-service-and-women-who-are-mayors>

<https://datajournalism.com/read/longreads/the-promise-of-wikidata>

<https://stanford.edu/~shervine/teaching/cs-229/refresher-algebra-calculus>

[https://en.wikipedia.org/wiki/Precision\\_and\\_recall](https://en.wikipedia.org/wiki/Precision_and_recall)

[https://en.wikipedia.org/wiki/K-means\\_clustering](https://en.wikipedia.org/wiki/K-means_clustering)

<https://www.datacamp.com/community/tutorials/k-nearest-neighbor-classification-scikit-learn>

7. how many credits Bo Wang gained at Concordia?

Bo Wang gained 8 credits

8. how many lectures are in COMP 6741?

COMP6741 contains 11 lectures

9. how many courses did Bo Wang attend at Concordia?

Bo Wang attended 2 courses

10. how many credits is course COMP 6741 worth?

COMP6741 is worth 4 credits

11. which topics are covered in Lab #4 of COMP 6721?

koko: [http://dbpedia.org/resource/Koko\\_the\\_Clown](http://dbpedia.org/resource/Koko_the_Clown)

algorithm: <http://dbpedia.org/resource/Algorithm>

kotuku: [http://dbpedia.org/resource/Great\\_egret](http://dbpedia.org/resource/Great_egret)

probability: [http://dbpedia.org/resource/Conditional\\_probability](http://dbpedia.org/resource/Conditional_probability)

probability: <http://dbpedia.org/resource/Probability>

training data: [http://dbpedia.org/resource/Training,\\_validation,\\_and\\_test\\_sets](http://dbpedia.org/resource/Training,_validation,_and_test_sets)

feature vector: [http://dbpedia.org/resource/Feature\\_machine\\_learning](http://dbpedia.org/resource/Feature_machine_learning)

prior probabilities: [http://dbpedia.org/resource/Prior\\_probability](http://dbpedia.org/resource/Prior_probability)

classifier: [http://dbpedia.org/resource/Statistical\\_classification](http://dbpedia.org/resource/Statistical_classification)

HAM: [http://dbpedia.org/resource/Amateur\\_radio](http://dbpedia.org/resource/Amateur_radio)

email: <http://dbpedia.org/resource/Email>

ham: <http://dbpedia.org/resource/Ham>

mushrooms: <http://dbpedia.org/resource/Mushroom>

gourmet: <http://dbpedia.org/resource/Gourmet>

language: <http://dbpedia.org/resource/Language>

12, Can you list all related course content for knowledge graph?

knowledge graph is covered in COMP6741->lecture3->lab03->[file:///C:/unibot/COMP474\\_6741/Labs/Lab03.pdf](file:///C:/unibot/COMP474_6741/Labs/Lab03.pdf)



knowledge graph is covered in COMP6741->lecture3->worksheet02->file:///C:/unibot/COMP474\_6741/Worksheet/worksheet02.pdf

knowledge graph is covered in COMP6741->lecture2->worksheet01->file:///C:/unibot/COMP474\_6741/Worksheet/worksheet01.pdf

knowledge graph is covered in COMP6741->lecture2->slide02->file:///C:/unibot/COMP474\_6741/Slides/slides02.pdf

knowledge graph is covered in COMP6741->lecture5->lab05->file:///C:/unibot/COMP474\_6741/Labs/Lab05.pdf

knowledge graph is covered in COMP6741->lecture5->worksheet04->file:///C:/unibot/COMP474\_6741/Worksheet/worksheet04.pdf

knowledge graph is covered in COMP6741->lecture5->other material-><https://techblog.wikimedia.org/2020/03/24/computational-knowledge-wikidata-wikidata-query-service-and-women-who-are-mayors>

knowledge graph is covered in COMP6741->lecture5->other material-><https://datajournalism.com/read/longreads/the-promise-of-wikidata>

knowledge graph is covered in COMP6741->lecture11->lab11->file:///C:/unibot/COMP474\_6741/Labs/Lab11.pdf

knowledge graph is covered in COMP6741->lecture10->lab10->file:///C:/unibot/COMP474\_6741/Labs/Lab10.pdf

knowledge graph is covered in COMP6741->lecture4->worksheet03->file:///C:/unibot/COMP474\_6741/Worksheet/worksheet03.pdf

knowledge graph is covered in COMP6741->lecture8->worksheet07->file:///C:/unibot/COMP474\_6741/Worksheet/worksheet07.pdf

knowledge graph is covered in COMP6741->lecture8->slide08->file:///C:/unibot/COMP474\_6741/Slides/slides08.pdf

knowledge graph is covered in COMP6721->lecture8->lab08->file:///c:/unibot/comp6721/Labs/Lab08.pdf

knowledge graph is covered in COMP6721->lecture8->slide08->file:///c:/unibot/comp6721/Slides/slide08.pdf

knowledge graph is covered in COMP6721->lecture9->lab09->file:///c:/unibot/  
comp6721/Labs/Lab09.pdf

knowledge graph is covered in COMP6721->lecture9->slide09->file:///c:/unibo  
t/comp6721/Slides/slide09.pdf

13. how many triples in total?

there are totally 18599 triples

14. how many distinct triples in total?

there are totally 1167 triples

15. how many courses in total?

there are totally 1715 courses

16. how many topics in total?

there are totally 1167 topics