Name! Syed Moin classid! 28

## IA) Removal of stopwords and punctuation:

Olp!

poc 1: Reasearchers
focus
computational
phenosyping
produce
disease
prediction

models

machine learning statistical tools.

Doll: Researchers
develop
tools
Bayestan
statistical
information
generate

consultations complete complete phenotyping datasets.

bold

computational

information

engine

uses

wachine

learning

combine

gene

Function

gene
integraction

information

disparate

geronic data sources. Doz 1:

researchers to cus computationalfocus computational phenotyping computational phenotyping produce phenotyping produce disease product on models prediction models machine models machine learning statistical tools

0x2:

reasearchers develop tools
develop tools bayesian
tools Bayesian statistical
Bayesian statistical information
statistical information generate
information generate casual
generate casual models.
casual models large
models large complex
Large complex phenotyping
complex phenotyping

rescenters build compretational build conjutational information computational information engine information engine uses ergine uses machine uses machine learning machine learning combine learning combine gene combine gere runchon que function gene Fundron gene interaction gore interaction information interaction information disparate information disparate genomit. disparate genomis dato genomic data sources

B) Term frequency:

Total no of terms in the document.

Truse downert frequery:

IDF(t) = 109e ( Total no. of documents with term + in it)

	DI	Da	D	3
regenriher	(	(		1
Roud	(	O	(	0
computational	t	O		1
phenotyping	(	l		D
produce	X	0	(	0
direase	1	O	ı	0
prediction	t		0	0
no dels	t		t	D
modine	t		0	1
learning	t		D	t
s but shral	t <sub>e</sub>		t	D
hool (	( -		(	0
develop	0		t	O
Bayerian	0		(	0
information	O		(	2
generale	0		1	0
casual	ð		(	0
caege	0		(	ð
complex	0			O
dataschi	0		(	D
build	0		0	1
somes	0	ĺ	0	1
data	(	5	0	1
gene	C		0	2
genomi'i		0	0	ī

TF-IBF values for each texms in Downertt 2:

presearches! 
$$TF = \frac{1}{12}$$
  $ZDF = loge(\frac{3}{2})$ 

$$7K \cdot ZDF = \frac{1}{12} \times loge(\frac{3}{2}) = 0.0146$$

of there typing.

u) for produce, disease, production

5) for models, machine, learning, statistical, hold

6) For remaining all terms which are not present in DI.

TF=0, then TF. IDF=0.

for Document 2!

i) Developi Bayesian

2) Information, holl, charistral

$$TF = \frac{1}{13}$$
,  $IBF = (09(\frac{3}{2}) = 0.176$ ,  $TF - IBF = 0.0135$ 

3) generate, large, datasets, caral, complex

a) phenotyping, wodels

Downent 3!

1) researchers.

$$7F = \frac{1}{18}$$
  $.70F = (09(\frac{3}{3})$  ,  $7F - I0F = 0$ 

2) build

3) for orgine, uses, machine, combine, hundran, interaction, date of sources, genomic, disposate

u) aene

$$7F = \frac{2}{18}$$
,  $IDF = 109(\frac{3}{1})$   $7F - IDF = 0.05L9$ 

5) learning

$$TF = \frac{1}{18}IDF = log(\frac{1}{2})IF - IDF = 0.948.$$