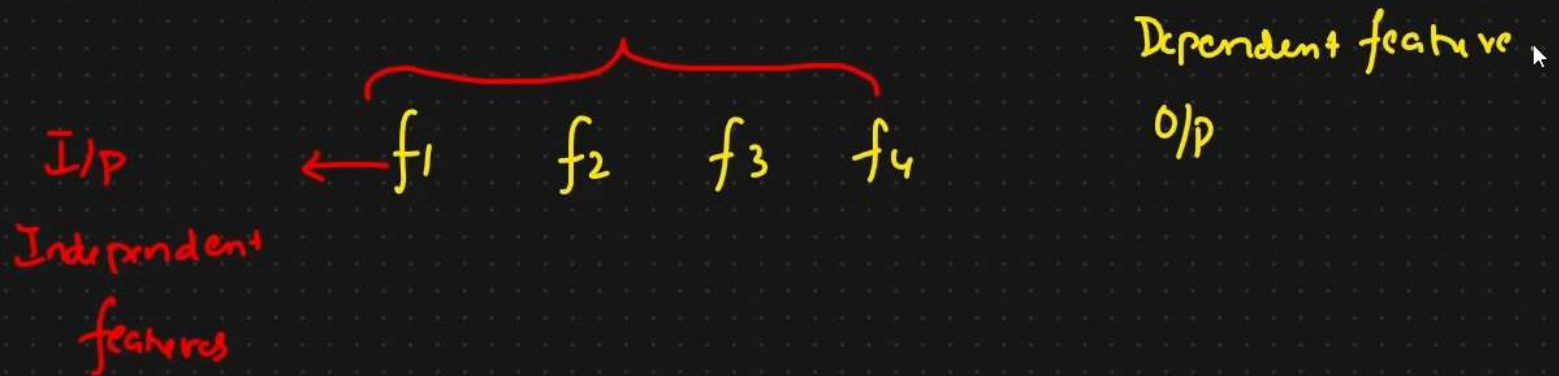


Natural Language Processing In Machine Learning

Roadmap



Roadmap



I/p Independent features	f1	f2	f3	f4	Dependent feature. O/p
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

! Text



Spam Classification → Email

→ Spam
→ Not Spam

Email Subject

Email Body

Spam/Ham

→

Billionaire

"You won a lottery of
Billion \$"

1



Meaningful vectors



→

Billionaire

"You won a lottery of
Billion \$"

1

⇒ Natural Language
Processing



Meaningful vectors

① Alexa

② Google Home



② Google Home

Roadmap of NLP

Neural NLP

Input Text → Vectors

Input text → Vectors

Cleaning the Input

Tensorflow/Pytorch

BERT

TRANSFORMER

Text Preprocessing → Word Embedding

RNN, LSTM RNN, GRU RNN

→ Deep Learning

Text Preprocessing 3 → Word2Vec, AvgWord2Vec

Text Preprocessing 2 → Bow, TFIDF, Unigram

Text Preprocessing — Tokenization, Lemmatization

Python ✓

NLTK, Spacy

