

# Komal Mistry

Computational Linguist |  
Machine Learning Engineer |  
Data Scientist

## Contact

### Address

Vancouver, BC, V6M3S5

### Phone

236 865 1458

### E-mail

komal.mistry224@gmail.com

### LinkedIn

<https://www.linkedin.com/in/komal-mistry-7893bb120>

### WWW

<https://mistrywoman.github.io/>

### WWW

<https://github.com/MistryWoman>

## Skills

Machine Learning

Deep Learning

Data Mining and Cleaning

Data Visualization

Tensorflow and Keras

Pytorch

Python

R

SQL

NLP and Text Analytics

Data science graduate with a background in engineering and business intelligence. I excel at analyzing text data using computational linguistics and machine learning techniques.

## Education

2019-05 -  
2020-06

### Master of Data Science: Computational Linguistics

University Of British Columbia

- Corpus Linguistics, Computational Semantics, Morphology
- Machine Translation, Sentiment Analysis
- Statistical Inference

2014-06 -  
2019-06

### MBA : Business Intelligence Analytics

NMIMS University - Mumbai

- New Product Development
- Innovation and Design Thinking

2014-06 -  
2019-06

### B.Tech : Electronics And Telecommunication

MPSTME University - Mumbai

- Computer Programming ( C, C++, Python)
- Engineering Mathematics

## Work History

2020-05 -  
2020-07

### Capstone Researcher

Computer Research Institute Montreal, CRIM, Montreal, Quebec

- Developed a new text dissimilarity based framework for concordancer / keyword in context tool for corpus exploration.
- Used multiple word embedding techniques, dimensionality reduction and unsupervised clustering to improve ROUGE scores.
- Created a python package to implement the project pipeline using elasticsearch.

2018-10 -  
2019-03

### Natural Language Processing Intern

Drupway Infotech, Mumbai

- Research and Implementation of software tool for text summarization and keyword extraction.
- Analyzed and collated data from various sources to be fed into the machine learning system.
- Reduced time spent on background reading by content development team.

2018-04 -  
2018-09

### Cyber Security Intern

Ernst & Young, Mumbai

- Developed intrusion detection & threat prevention models from AWS flow logs and DARPA research datasets.
- Used machine learning for automated anomaly detection during penetration testing.
- Developed a complementary dashboard to monitor threat levels.

2017-05 -  
2017-07

### Engineering Intern

GetParking Pvt Ltd, Mumbai

- Prototyped and fabricated LoRaWAN enabled sensor network for remote vehicle detection.

## Projects

### 1) Chains of Research

- Built an online investigative tool built by parsing text data from 5 ACM conferences over a period of 20 years.
- It's aim is to visualize the influence of the jury members/universities that contribute to selection bias in research publications.

### 2) Classifying human text from GPT2 generated text

- Used machine learning models like logistic regression, CNN and BERT using word embeddings to create a fake text detection system.

### 3) Trending topics in machine learning

- Used text data from NIPS conference for a period of 30 years to create a LDA for topic detection.