Santhosh Kolloju

Experience:~5years   +919916652065| santhoshkolloju.31793@gmail.com

Linkedin: https://bit.ly/2TKInbj   **Github:**https://github.com/santhoshkolloju

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (Upscale Program by Wipro)		**Chennai, India**
● Masters**, Data Science**	**GPA:** 8.13	Dec 2014-May-2017
MVSR ENGINEERING COLLEGE (OSMANIA UNIVERSITY)		**Hyderabad, India**
● B.E **Computer Science**	**PER:** 84%	July 2010-May-2014

EXPERIENCE SUMMARY

I have completed My Bachelor's degree in computer science from MVSR Engineering college (Osmania University) and Masters in Data Science from VIT University. Currently Working in GAA Vitality team an applied research group in fidelity investments. My work is focussed towards **Natural language processing** using various machine learning and **deep learning** techniques, Prior to this I was working in Manufacturing Analytics team in **WIPRO** Technologies where my focus area was on analysing and creating machine learning and statistical based models for semiconductor manufacturing industry.

SKILLS

● **Python**, **Tensor flow** , **Pytorch** , **Keras , Deep learning , Machine learning , NLP**

WORK EXPERIENCE

ARTIFICIAL INTELLIGENCE ENGINEER   FIDELITY INVESTMENTS, BANGALORE DEC 2018 - PRESENT

Defined Benefits Letter Generation: Fidelity manages Defined Benefits (DB) account for its customers, who call the reps to answer queries related to their Benefits plans. These calls may be pushed as tickets. the tickets once resolved , may result in hand written letters which are sent to the respective customers . I am working on creating a deep learning model which can automatically write letters from the research notes . This comes under Natural language generation problem (NLG).

Methods Implemented :

1)Abstractive summarization using pointer generator networks with coverage mechanism to generate meaningful letters and reduce the manual effort.

2)Transfer learning approach with BERT(Bi Directional Representations From Transformer Networks) as Encoder and Transformer decoder which is trained from scratch.

Health & Welfare Smart Compose: Smart compose is a assistant which helps the associates to write the letters to the clients or participants much faster.this is similar to smart compose option implemented in GMAIL.

Methods Implemented:

1) RNN Based approach trained a sequence to sequence models with previous mail content as well the research notes as the context.

2)Transformer based model with encoder and decoder architecture. where the context is sent to the encoder and decoder is trained to predict the next best sentence.

This model has been modified to fill the missing /unknown words predicted by pointer generator model.