Mounika Kanakanti

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Education

MS By Research, CSE
(CGPA: 9.0/10)
IIIT Hyderabad
Jan 2020 – Present

BTech, CSE
MGIT, Hyderabad
Aug 2013 – May 2017

Course Work

- Statistical Methods in AI
- Introduction to NLP
- NLP Applications
- Deep Learning: Theory and Practices
- Information Retrieval and Extraction
- Computational Linguistics: Comp Semantics and Discourse parsing

Certifications

The Postgraduate Certificate in Big Data Analytics Optimization
INSOFE certified by CMU
Sept 2018 – Jan 2019

AI-Deep Learning
EXCELR Solutions, Madison, Wisconsin
Oct 2019 – Dec 2019

Data Management and Visualization
Coursera
June 2019 – July 2019

Skills

Programming Languages:
C, Java, SQL, Mongo, R, Python

NLP/CV/AI Tools:
NLTK, SpaCy, Tensorflow, PyTorch, DyNet, Flask, RASA, BeautifulSoup, OpenCV, SparkML, Hive

Research Interests

Multilingual Conversation Systems | Multimodal Learning | Cognitive Linguistics | Discourse Analysis | Machine Learning

Experience

Research Assistant, LTRC, IIIT Hyderabad — June 2020 – Present

Scraping pipeline | Multilingual Representations

- Developed a pipeline to collect data belonging to languages that are low-resourced from different social media platforms
- Built a word-level language identification tool for code-mixed text that performs as good as the SOTA benchmark

Research Intern, LTRC, IIIT Hyderabad — June 2019 – Dec 2019

NLP | Sentiment Analysis | Code-Mixed Data Analysis

- Used tree-based classifiers for aspect based sentiment analysis and performed a thorough analysis on challenges in sentiment analysis for code-mixed text
- Performed a detailed study on linguistic theories for code mixed text and implemented a dependency parser developed on Hindi-English UD treebanks to identify the patterns of code-mixed text

AI Researcher, Brontobyte Analytics, Hyderabad — Apr 2018 – June 2019

Computer Vision | Deep Learning | Histopathology | Conversational System

- Worked on identifying abnormal regions in mammograms and histopathological images(size > 1GB each) using various computer vision and deep learning techniques
- Built a data creation pipeline for collecting clinical terms from PDF documents (Clinical Practicing Guidelines) using NER models and Apache cTAKES.
- Worked on building a chatbot that takes patient symptoms/concerns as input and returns the probable diseases(ICD Codes) along with its associated complications using RASA framework

Research Intern, INSOFE, Hyderabad — Jan 2018 – Mar 2018

NLP | Machine Learning

- Worked on a personality type(Myers Brigg) identification problem using posts of individuals on a community forum using multi-target classification
- Scraped metadata of the URLs posted by the individuals using Beautiful Soup and used them as extra features to understand individuals' preferences.

Projects

Long-Form Question Answering

- Built a long form question answering system on ELI5 dataset by Facebook AI that requires reasoning capabilities and generation of long sentences along with machine comprehension to answer user queries
- Outperformed the baselines and produced qualitatively better results

SMS-Based Chatbot for Appointment Scheduling

- Built a conversation system that helps patients to book, reschedule or cancel an appointment and answer other general queries
- Integrated the bot with SMS interface and a feature that could send automatic emails to make it more user-friendly.