ANJALI AGRAWAL

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EDUCATION

Center for Data Science, New York University, New York, USA **Aug 2019 – Expected 2021**
M.S. in Data Science | 4.0 GPA | Teaching Assistant, Statistics | Teaching Assistant, Introduction to Data Science
Relevant Courses: Big Data, Natural Language Processing, Machine Learning, Deep Learning, Probability & Statistics

Institute of Technology, Nirma University, Ahmedabad, India **Aug 2015 – May 2019**
B.Tech. in Computer Engineering | 8.40 CGPA | Merit-based scholarship recipient | Social Head, Rotaract Club
Relevant Courses: Database Management Systems, Deep Learning, Linear Algebra, Artificial Intelligence, Machine Learning

PROFESSIONAL EXPERIENCE

Data Scientist Intern, Chief Analytics Office, IBM, New York, USA **June 2020 - Aug 2020**
- Refined the existing models for capturing company mentions and market sentiment from unstructured data
- Leveraged NLP tools such as coreference resolution and entity relevance to accurately assess the market insights
- Utilized state-of-the-art techniques such as BERT to improve the f-1 score by 26% for target-sentiment prediction

Research Assistant, NYUAD, New York University, Abu Dhabi, UAE **Jan 2020 – May 2020**
- Analyzed the data scraped from fake and real news sites to identify the key markers of fake articles
- Explored the text articles using NLP tools such as topic models, disambiguate scores, style measures, URL information
- Developed an algorithm to identify fake sites which have propaganda articles leading to misinformation

Data Analyst, Wellness Space, Ahmedabad, India **Jan 2019 – May 2019**
- Recorded 24-hour heart signals of 50 subjects to analyze the key parameters associated with mental stress
- Utilized the Heart Rate Variability and Accelerometer readings to compare the effect of activities in reducing stress
- Developed algorithm to predict stress levels and emotional arousal and monitor the response to stressor

Summer Intern, Career Lift, Indore, India **May 2017 – Jul 2017**
- Worked on the ed-tech company's software for conducting mocks for competitive exams
- Analyzed data of 800,000 students to provide users with feedback on their mock exams using data visualization tools
- Developed a software to predict the improvement in the student's performance through data analytics

RESEARCH & PRACTICUM PROJECTS

Shuffling Tokens: Optimized Pre-training Objective for RoBERTa **Jan 2020 - May 2020**
- Developed a pre-training strategy to improve the performance of the state-of-the-art models on various NLP tasks
- Facilitated the model to learn coherent sentence representations and recognize key pieces of sentence and their association

Job Recommendation Engine **Sep 2019 – Dec 2019**
- Developed a dataset for data science job postings and available candidates using web scraping tools such as BeautifulSoup
- Utilized the word semantic to engineer features and cosine similarity to recommend most similar jobs to the candidates
- Predicted the candidate's most recent job and evaluated the model using the metric hit rate

Emotion Recognition **Aug 2017 – Mar 2018**
- Developed an algorithm and a questionnaire by collecting data from various psychologists, to identify the emotion of the user
- Worked on automating the task of classification of facial expressions into emotions using deep learning techniques (CNN); used combination of pre-processing methods and different techniques of data augmentation which significantly improved the accuracy of the model

PUBLICATIONS

- Mungra D., Agrawal A., Thakkar A. (2020) *A Voting-Based Sentiment Classification Model.* In: Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing, vol 989. Springer, Singapore
- Thakkar A. , Mungra D., Agrawal A.(2019) *Sentiment Analysis: An empirical comparison between various training algorithms for Artificial Neural Network.* In: International Journal of Innovative Computing and Applications.
- Mungra D., Agrawal A., Sharma P., Tanwar S., Obaidat M. *PRATIT: A CNN-Based Emotion Recognition System using Histogram Equalization and Data Augmentation.* In: Multimedia Tools and Applications.

TECHNICAL SKILLS

- **Programming Languages:** C & C++, Java, Python, HTML, CSS, JavaScript
- **Tools & Technologies**: Android, SQL, Hadoop, Spark, LaTeX, TensorFlow, Excel, Tableau, Pytorch, Scikit-Learn