Neeti Wason

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D.O.B 19 October 2001

EDUCATION

Bachelor's Degree
University of Delhi - Kalindi College
Bachelor of Science in Computer Science (Honours Course)
July 2019 - January 2022
GPA: 9.081 out of 10.0

Master's Degree
University of Delhi - Department of Computer Science
Master of Science in Computer Science
Pursuing since July 2022

EXPERIENCE

Research Project: *Distinguishing between AI-generated and Human-written Text: A Complex Network Approach*
Department of Physics and Astrophysics
Academic year 2023 – 2024
University of Delhi

- Conducted research under the guidance of Prof. Sanjay Jain with collaborators Sudipto Ghosh, Jaideep Shekhar, and Srishty Sonal.
- Investigated the classification of text as AI-generated or human-written using a complex network approach.
- Acquired the CHEAT dataset and performed data preprocessing, including text normalization and constructing word co-occurrence networks.
- Modeled abstracts as undirected, unweighted networks, and extracted various graph-theoretic measures.
- Applied Tool for the Automatic Analysis of Cohesion (TAACO) metrics to capture linguistic cohesion indices.
- Utilized traditional classifiers and ensemble methods to distinguish between human and AI-generated text.
- Evaluated classifier performance using metrics such as accuracy, precision, recall, and F1 score.

Research Project: *Natural Language Generation using LLM*
Department of Computer Science
Academic year 2023 – 2024
University of Delhi

- Collaborated with Sudipto Ghosh under the mentorship of Prof. Vasudha Bhatnagar and Dr. Vikas Kumar.
- Conducted an in-depth analysis of language model diversity, focusing on two prominent models: LLaMA-2 and Falcon-LM.
- Applied a cutting-edge topic modeling pipeline to the generated text, calculating topic coherence and sentiment scores to compare the language models' outputs.
- Utilized neutral prompts to investigate inherent biases in the generations of both LLaMA-2 and Falcon-LM, assessing text generation quality through lexical diversity measures.

- Employed BERTopic, as introduced by Grootendorst, for topic modeling on the generated text, experimenting with different parameters to compute topic coherence measures.
- Analyzed the intensity of sentiments in representative documents of the identified topics, providing insights into the contrasting characteristics of the language model generations.

Funded Project: *Application of Machine Learning on COVID-19 Data* Kalindi College
Academic year 2021 – 2022 University of Delhi

- Collaborated with three project coordinators: Dr. Vandana Gupta, Dr. Sapna Varshney, and Ms. Neha Singh at Kalindi College, University of Delhi, during the academic year 2021–22.
- Assisted with administration and editorial work, Develop a predictive model using machine learning algorithms, trained on publicly available Covid-19 datasets, to accurately determine whether an individual is Covid-19 positive or not.
- Visualize and analyze the impact of COVID-19 in India, leveraging data-driven insights to understand the patterns, trends, and severity of the disease across different regions.
- Explore and interpret vaccination trends related to COVID-19 in India, providing valuable information on the efficacy and coverage of vaccination efforts.

Frontend Development Internship DU Assassins
Jan 2022 – May 2022 https://du-assassins.in/

- Spearheaded the design of the website's user interface during a dynamic Frontend Development Internship at DU Assassins.

PROFESSIONAL DEVELOPMENT

Natural Language Processing with Classification and Vector Spaces - Coursera Learner
Authorized by DeepLearning.AI
Successfully completed on: December 6, 2023

JavaScript RAG Web Apps with LlamaIndex
Authorized by DeepLearning.AI
Successfully completed on: April 6, 2024

Is Indian Law Computable? Using Artificial Intelligence for Legal Research and Analysis in India
Dr. B. R. Ambedkar University Delhi
February 5th, 2024
Certificate of Participation: Received for attending the National Workshop organized in Hybrid Mode by the Internal Quality Assurance Cell (IQAC) and School of Law, Governance, and Citizenship (SLGC) at Dr. B. R. Ambedkar University Delhi, in collaboration with Indian Kanoon.

COMPUTER SKILLS

Languages: English & Hindi (Proficient)
Computer Language: Java, C++, Python, HTML, CSS, JavaScript LaTeX.