Mayank Goel

BTECH CS + MS, COMPUTATIONAL LINGUISTICS

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mayankgoel28

AWARDS

Best Technical Product
SummerUp 2020
June 2020

Best Web Application
HackAtHome, Brown University
October 2020

1st Prize, Equity Track (Advanced)
HackUMBC
November 2020

3rd Prize, Walmart Track
TAMU Datathon 2020
October 2020

Top 30, India
Panini Linguistics Olympiad
March 2019

LANGUAGES AND TOOLS

Python, Javascript
Comfortable

C++, C, Java, Lisp
Familiar

Pandas, NLTK, Matplotlib, Spacy, Numpy
Comfortable

ReactJS, Node, MongoDB
Familiar

COURSEWORK

Discrete Structures · Computer Programming · Digital Systems and Microsystems · Introduction to Linguistics (I and II) · Data Structures and Algorithms · Computer Systems Organization · Computational Linguistics (I and II) · Language and Society · Algorithm Analysis and Design · Database and Applications · Introduction to Software Systems · Linear Algebra · Probability and Statistics

EDUCATION

IIIT Hyderabad
(July 2019 - Present)
8.17
BTech + MS Computer Science and Computational Linguistics

PROJECTS

Jeeves
July 2020
https://github.com/MayankGoel28/Jeeves

Made an automated joke generator using various NLP techniques, using a hybrid approach using both ML and linguistic rules to generate jokes on given themes.

Domain Specific Search Engine
August 2020
https://github.com/MayankGoel28/DSSE

Made a Knowledge-based ontological Search engine, automating most part of the cleaning process and using Semantic Similarity to relay data from over 20k Walmart products.

Name Entity Recognition System
March 2020
https://github.com/DomainNER/NamedEntityRecognizer

Automatically tagged a large corpus of 500k sentences with Named Entities to create training data, and used multiple approaches for NER.

Maze Algorithms
November 2020
https://github.com/Defectors-IIIT/Puzzles

Worked on randomized Maze Generation, based on an Object Oriented Template developed by team. Did Complexity Analysis and analysis of bias with generation, and also worked on an Adversarial Search Algorithms for a PacMan-like game on the mazes generated.

Summarizer-Bot
October 2020
https://github.com/MayankGoel28/Summariser-Bot

Uses cosine similarity on sentence vectors to summarize long texts, along with keyword extraction for a discord bot. Encountered and solved problems such as code mixing and data processing using a predominant language agnostic approach.

HarryFrodoClassifier
July 2020
https://github.com/MayankGoel28/HarryFrodoClassifier

Uses Convolutional Neural Network for image classification between images of Daniel Radcliffe and Elijah Wood with moderate success due to limited scraping and extensive need of manual cleaning.

WORK EXPERIENCE

Panini Linguistics Olympiad
(January 2019 - Present)
Member, Organizing Committee

Worked with evaluating answer scripts, handling emails, and other organizational duties.

SKILLS

Linguistics, Data Cleaning, NLP, Writing
Confident

Machine Learning, Backend, Scraping
Familiar

EXTRA-CURRICULARS

Coordinator, FHC (Humour Club, IIIT) (Jan 2020 -)

Undersecretary, Clubs Council, IIIT Hyderabad (July 2020 -)

Editor, Ping! The College Magazine (July 2020 -)

Organizer, UG2k19 Summer Hackathon (May 2020)

Extensive experience in Quizzing (2012 -)

Coordinator, Debate Society, IIIT Hyderabad (July 2020 - Dec 2020)