

Mayank
Goel

BTECH CS + MS,
COMPUTATIONAL LINGUISTICS

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Github

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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

Tensorflow, Pytorch, Pandas, NLTK, Spacy

Comfortable

C, C++

Familiar

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 · Design and Analysis of Software Systems · NLP · Language Typology and Universals

EDUCATION

IIIT Hyderabad

BTech + MS

Computer Science and Computational Linguistics

(July 2019 - Present)

8.51

WORK EXPERIENCE

Proxzar

Intern

(April 2021 - May 2021)

Used Apache Nutch to crawl multiple e-commerce websites, and parsed the HTML content to get product information. Wrote a generalized parsing script and automated large parts of the process using Python and Bash.

Trivedi Centre for Political Data, Ashoka University

Research Associate

(May 2021 - June 2021)

Developed data visualizations using plotly, and made a dashboard on streamlit to view them. Worked with the research team and developed interactive features based on continuous feedback.

Panini Linguistics Olympiad

Member, Organizing Committee

(January 2019 - Present)

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

PUBLICATIONS

Towards Conversational Humor Analysis and Design

11th Humor Research Conference

January 2021

Worked on identifying and creating jokes, based on core theories of Humor. Approached the problem using domain knowledge in Linguistics and Humor, along with Machine Learning.

PROJECTS

Echodex

<https://github.com/chaudhary1337/Echodex>

(June 2021 - Present)

Wrote a generalized tool to fetch data from a news API, Twitter and Reddit. Worked on fetching and cleaning the data to a frontend made using streamlit, after using NLP tools for analysis such as sentiment analysis and document classification.

Domain Specific Search Engine

<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

<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

<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

<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.

DrBear

<https://github.com/SmartyPants042/Dr-Bear/>

Worked on a real-time scraper which collects news on social media opinion on Stocks from multiple sources. The scraper was used as part of a larger webapp for usage to survey opinions.

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 -)