MAYANK GOEL

Hyderabad, India · mayank.goel@research.iiit.ac.in · +91 7890545454 · https://mayankgoel28.github.io/

EDUCATION

International Institute of Information Technology   Hyderabad
BTech + MS Computational Linguistics Dual *GPA: 7.92*   July 2019 -

EXPERIENCE

Robert Bosch GmbH   Bangalore, India
Research Intern   June 2023 - July 2023

- Integrated sentence transformers into an existing hierarchical clustering project
- Implemented a robust pipeline for fine-tuning sentence transformers, using various SOTA methods
- Developed a novel evaluation metric exclusively tailored to hierarchical clustering, addressing existing limitations with evaluation methods.

Proxzar.ai   Hyderabad, India
Research Intern   Dec 2021 - Feb 2023

- Developed a robust e-commerce website crawling pipeline using Apache Nutch and Selenium.
- Built a Spacy3 model utilizing Transformers for a production-grade custom NER model for an e-commerce company, as part of an end-to-end system, with a dataset augmented by 20% using fuzzy matching. Achieved accuracy of 91% on a multi-class system,

Lotusdew Wealth and Investment Advisors   Hyderabad, India
Research Intern   May 2022 - June 2022

- Built a Neo4j dashboard with a semantic similarity graph using fine-tuned BERT, aiding company research analysts.
- Implemented a DL-based solution for faster graph creation, surpassing $O(n^2)$ algorithm speed.
- Built a wrapper over Zerodha API using Phoenix Web Framework

Quriate   Remote
SDE Intern   Aug 2021 - Aug 2021

- Developed data analytics components using pandas on user data for an examination portal with a centralized MongoDB database.
- Achieved approximately 5x efficiency boost by implementing vectorized code.

SKILLS

Languages:	Python, C++, Javascript, Bash
Frameworks, Libraries and other tools:	PyTorch, Spacy, MERN Stack

PROJECTS

Echodex *Python*   https://github.com/chaudhary1337/Echodex
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.

Job Application Portal *MERN*   https://github.com/MayankGoel28/JobApplicationPortal
A full-stack web app with functionality to support use cases of recruiters as well as job seekers. Includes a JWT based user authentication system.

Joke Generator *Python*   "https://github.com/abhijitmanatkar/jokegen"
Used a finetuned BERT infilling model to generate jokes on automatically extracted templates. Research focused on semantic contribution of words and how a new joke can be made from an existing one. The project was accepted a poster submission to the 13th Humor Research Conference.

ADDITIONAL EXPERIENCE AND REWARDS

Best Project (Theme track)	Natural Language API hackathon, expert.ai
1st Prize, Equity Track	HackUMBC, University of Maryland
Best Web Application	HackAtHome, Brown University
3rd Prize, Walmart Track	TAMU Datathon, Texas A&M University
Teaching Assistant	Introduction to NLP
	Spring'22