

Harsh Bari

 harshbari-153 |  harshbari153 |  bari.harsh2001@gmail.com |  +919099193933
 30 April 2001 |  Moti Daman |  geeksforgeeks.org/user/barihbarsh2001

MTech graduate with a strong foundation in Data Science and hands-on skills in Natural Language Processing (NLP). Eager to apply these skills to solve real-world problems in a data-driven role.

PROJECTS

Next Assignment | PostgreSQL, Hugging Face, Streamlit, S-Transformers, AI Sept 2025

- Generates real-world assignments from top-matching trending Indian news using "gemini-2.5-flash", showcasing practical application from user given subject and skills.
- Automated ETL pipeline fetching top 5 Indian news daily at 12 AM via GNews API, and stores results on Neon Website using GitHub Actions for CI/CD pipeline with unit testing and dependency setup.
- Deployed at: next-assignment.streamlit.app
- Demo Video: bit.ly/3KcqPRy

KJNN | PyTorch, BeautifulSoup, ScikitLearn, ML, NLTK, Keras, Gensim Jan 2025

- Neural Network Architecture which classifies Claim-Justification Sentences into 6 classes.
- Trained 7 matrices(6 100x100, 1 200x100) on Politifact Dataset (21k news articles) scraped from Kaggle.
- Outperforms sBERT, DistilBERT, GloVe, RoBERTa-Base, and Word2Vec in 3/5 ANN test classifiers.

Claim Justification Cross Question Generator | Finetuning LLM, Gen AI Jan 2025

- Finetuned GPT2, BART, T5 and Pegasus (seq-2-seq transformers) on 21k Polifact articles to generate cross questions over misaligned justification on given claim.

EDUCATION

Aug 2023 - Sept 2025	MTech Data Science at NIT Surat	7.88 CGPA
July 2019 - March 2023	BTech CSE at PIET Vadodara, Gujarat	8.70 CGPA
July 2017 - May 2019	Class 12th, Gujarat Board at IOLF Daman	79.93%
May 2017	Class 10th, Gujarat Board at IOLF Daman	80.67%

PUBLICATIONS

Generalized Immutable Ledger (GILED) using Blockchain Technology	IEEE SCEECS'23
Available at: ieeexplore.ieee.org/document/10062983	March 2023
Contextual Sentence Embedding Base Difference Procedure (BDP) Vectorization	IEEE SCEECS'25
Available at: ieeexplore.ieee.org/document/10940513	March 2025
Claim Justification using Subject Predicate Distance (SPD) Extraction	IEEE ICDSBS'2025
Available at: ieeexplore.ieee.org/document/11031662	June 2025
Claim Justification Contextual Embeddings using KJNN	IEEE IC2E3'2025
Accepted on 8 April 2025(paper withdrawn)	May 2025

WORK EXPERIENCE

Part Time Teaching Assistant	Nov 2021 - Oct 2022
Taught Java, Data Structures in 2nd, 3rd year BTech with 90% positive feedback.	PIET Vadodara
Subject Matter Expert at Chegg	Feb 2021 - Dec 2022
Posted 500+ solutions on Chegg Consulting Website in Computer Science.	Chegg Website

OTHERS

Languages	Gujarati, Hindi, English.
Achievements	GATE CSE 2023 (AIR 3251), CS UGC NET Jan-2025 (97%ile).
Skills	python, pandas, numpy, matplotlib, web scraping, deep learning, machine learning.