

Amit Shukla

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Codechef: <https://www.codechef.com/users/amitcode1311>

Leetcode: <https://leetcode.com/u/ShuklaAmit1311/>

Codeforces: <https://codeforces.com/profile/Iknowyou01>

EDUCATION

- Indian Institute Of Science Education and Research** Bhopal, India
Bachelor of Science in Electrical Engineering and Computer Science (EECS), GPA: 9.17/10 Nov 2020 – May 2024

INTERESTS AND SKILLS

Machine Learning, Natural Language Processing, Computer Vision, Data Structures, Algorithms, C, Python, Java, C++, SQL, Go, R, Bash, Octave, Django, Pytorch, Flask, Tensorflow, Git, Linux, EC2, Postman, Selenium, MongoDB, PostgreSQL

WORK EXPERIENCE

- Language Technologies Research Center (LTRC)** IIIT Hyderabad, India
Research Fellow Aug 2024 - Present
 - Currently working on **Intent Detection** and classification in discourse relations.
 - Developed and proposed various prompt structures that could help various Large Language Models (LLM's) like **ChatGPT**, **Perplexity**, **Llama** to actively and correctly capture the underlying intents in discourse relations.
- Inertia Astronautics** Hyderabad, India
Artificial Intelligence Intern June 2024 - July 2024
 - Developed ground-breaking **Keypoint based navigation system** that minimizes the reliance on GPS like current systems. This system enhances efficiency and addresses connection issues and trackability challenges.
 - Optimized** the navigation pipeline efficiency by **40%** by incorporating **YOLOv7** model for higher processing speed.
 - Increased** the accuracy of the navigation system by **23%** via implementing Siamese Networks for similarity scores.
- MITACS** Edmonton, Canada
ML Research Intern May 2023 - Aug 2023
 - Conducted experiments and developed a machine learning framework to detect cognitive engagement levels of students on e-learning platforms by analyzing their posts. Attained an accuracy of **92%** with an f-score of **0.933**.
 - Implemented a comprehensive dataset categorization system for language processing experiments conducted rigorous **reliability** tests with a score of **0.88**, ensuring data quality met industry and research standards for accurate analysis and insights.

ACHIEVEMENTS

- ML Mentor**, DeepLearning.AI | **5 star**, Codechef | **Specialist**, Codeforces | Solved over **1000+** questions on Leetcode | **C.N.R Rao Academic Award** for **10** CGPA in freshman year

TECHNICAL PROJECTS

- Predicting GRB Light Curves Using Bi-directional LSTMs** [Github Link](#)
Python, Tensorflow, Keras, Selenium Dec 2022 - July 2023
 - Developed a novel method for reconstructing Gamma Ray Burst (GRB) light curves using **Bidirectional LSTMs**. Were able to beat the current baselines and proposed methods by **10%**.
 - We introduced our method that utilizes multiple Bi-LSTM model architecture that captures intricate relationships between energy and time and predicts the energy value at a given time stamp by identifying the underlying patterns.

PUBLICATIONS

Predicting Missing Light Curves of Gamma-Ray Bursts with Bidirectional-LSTM : An Approach For Enhanced Analysis **SPAICE, 2024**

[SPAICE ESA \(https://zenodo.org/records/13885689\)](https://zenodo.org/records/13885689)