Divyanshu Giri

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Undergraduate Student
International Institute of Information Technology Hyderabad

Education

BTech in CSE and MS by Research in Computational Linguistics (Dual Degree) *Present*
International Institute of Information Technology Hyderabad
2024-2029

Coursework

- Computer Programming
- Digital Systems and Microcontrollers
- Discrete Structures
- Introduction to Linguistics-1 & 2
- Data Structures and Algorithms
- Linear Algebra
- Computer Systems Organization
- Introduction to System Software
- Computational Linguistics-1

Projects

Computational Linguistics Project *Jan 2025 - Present*

- Developing advanced text parsing system using Python's Regular Expression Library
- Implementing tokenization algorithms to process and analyze large-scale datasets
- Creating customized parsing parameters for linguistic analysis requirements

Analysis of An Indian Language on the basis of Linguistic features

- Conducted comprehensive analysis of Hindi language focusing on multiple linguistic aspects
- Analyzed phonetic transcription, phonology, syntax, writing systems, morphology and syllabification
- Utilized dataset compiled from speeches of Atal Bihari Vajpayee and song lyrics by Javed Akhtar
- Applied computational methods to process and analyze the linguistic features

Digital Design Labwork

- Completed comprehensive weekly laboratory assignments focused on digital design systems
- Developed and implemented multiple small-scale projects using digital kits and Arduino platforms
- Gained hands-on experience with digital system design and microcontroller programming

Honors

1st Runner Up
The Deccan Ctf
Team: doNotRedeem

Technical Skills

Programming Languages:
Python, Java, C, C++, Assembly

Technologies & Tools:
HTML, CSS, JavaScript, MySQL, MongoDB, Bash, GDB, Linux Shell, AutoCAD, Apertium, Matplotlib, React.js