



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH	IIT Kharagpur	8.61 / 10
2020	B.E(IT)	Devi Ahilya Vishwavidyalaya Indore	7.94 / 10
2016	Higher Secondary Certificate Exam	MPBSE Bhopal	91.8%
2014	High School Certificate Exam	MPBSE Bhopal	92.17%

PROJECTS

Question Generation in Health Information System

Guide: Prof. Debasis Samanta(Ongoing)

M.Tech Thesis | Long Short Term Memory Network | NLP | RL

- » Project aims to build a question generation model which generates counter questions for patient's answers.
- » Implemented seq2seq model with Bi-LSTM and attention mechanism for MedDialog conversation dataset.
- » Working on enhancing the performance of the model by incorporating reinforcement learning.

Console based Autograder with custom FTP

Guide: Prof. Animesh Mukherjee(Spring'21)

Computing Lab II | Socket Programming | Linux System Calls | Data Transfer

- » Built console-based autograder by implementing file transfer protocol in single server-multiple client architecture.
- » Implemented FTP commands(RETR, STOR, LIST, DELE, QUIT) on the top of the TCP sockets using Linux system calls.
- » Autograder takes program files from clients, compiles, runs them on hidden test cases, and responds accordingly.

Web Crawling and Information Extraction

Guide: Prof. Pawan Goyal(Spring'21)

Computing Lab II | Web Crawling | Compilers | Lex/Yacc

- » Designed a web crawler that crawls and stores RottenTomatoes web pages for 1000 movies from 10 genres.
- » Using the Lex tool, generated tokens based on the required fields for the stored HTML pages.
- » Created Context-Free Grammar to store information of the fields with the help of Yacc and answer user's queries.

Railway Reservation System

Guide: Prof. Pallab Dasgupta(Autumn'20)

Computing Lab I | System Calls | Concurrency Control | Shared Memory

- » Railway Reservation System facilitates the passengers to enquire about the trains, book or cancel tickets.
- » Designed a reservation system comprised of 10 trains having 50 seats in each class(AC2, AC3, Sleeper).
- » Used counting semaphores to access Reservation Database(critical section) and handle concurrency issues.

COURSEWORK INFORMATION

•Algorithms Design & Analysis	•Complex Network	•Computing Lab	•Natural Language Processing
•Computational Geometry	•Machine Learning	•Operating System	•Database Management System
•Data Structures and Algorithms	•Compilers Design	•Graph Theory	•Digital Electronics

SKILLS AND EXPERTISE

Programming Languages: C, C++, Java, Python**Libraries and Frameworks:** STL, TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, NLTK, Matplotlib**Familiar With:** Socket programming, GLPK, SQL, Git, Lex/Yacc, Thread Programming**Developing Environments:** Linux, Windows, Jupyter, Google Colab, Visual Studio Code

AWARDS AND ACHIEVEMENTS

- » Secured **99.74** percentile with **All India Rank-253** in **GATE CS 2020** organized by IIT Delhi.
- » Awarded by **Honorable Chief Minister(Madhya Pradesh)** for academic performance in the senior secondary exam.

POSITIONS OF RESPONSIBILITY

Teaching Assistant | Programming and Data Structures(CS19001)

Sept'21-Present

IIT Kharagpur | Prof. Partha Bhowmick | Prof. Swagato Sanyal

- Conducted tutorials, designed problems for assignments, and graded them for a class of 400 students.

Senior Editor | Technology Literary Society, Kharagpur

June'21-Present

- Conducted workshops on ghazal writing for new literary enthusiasts and also performed poetry for TLS.

Volunteer | Dishanjali Education and Welfare Society

Sept'16-Jan'17

- Tutored the underprivileged children from the slum areas weekly and held summer camps for them.

EXTRA CURRICULAR ACTIVITIES

- » Awarded by District Collector for securing third rank in slogan writing competition for Beti Bachao Abhiyan.
- » Passed National Cadet Core(NCC) "A" certificate examination organized by Ministry of Defence, Govt of India.
- » Participated in the district-level Republic Day and Independence Day parade as an NCC cadet.
- » Participated in the state level essay competition on "1975 Emergency" organized by Loktantra Senani Sangh(MP).