

Bharat Kumar Gupta

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.06	2019-2023
Senior Secondary	MP Board	79.8%	2018-2019
Secondary	CBSE Board	9.6	2016-2017

EXPERIENCE

- Amazon** May 2022 - July 2022
SDE Intern Hyderabad, India
 - Developed automated testing pipeline for Front-end of an internal website using Cypress, thereby ensuring bug-free deployments and significantly reducing development and debugging process of the website.
 - Identified and resolved high priority issues related to few REST APIs, mitigating blockage in production.
 - Participated in 1-day Intern Hackathon as lead of 3-member team and developed a new feature to improve existing automated testing methods.
 - Collaborated with multiple teams for solution feedback and code review.
 - Learned java, cypress, and mockito.

PROJECTS

- Speech Enhancement using Deep Learning** June. 2022 - Sept. 2022
BTech Project, supervised by Dr. Nitya Tiwari Project-Report
 - Implemented a monaural self-supervised time-frequency domain speech enhancement model in time domain.
 - Changed architecture of original T-F domain model and implemented necessary loss functions to adapt it to directly work with waveform and improve enhancement quality.
 - Developed with Pytorch and Matlab
- Sorting Algorithms Visualizer** July. 2021 - Aug. 2021
Personal Project Web-page Github
 - Created a web-page that allows users to visualize different sorting algorithms with adjustable array sizes and random array values.
 - Implemented a feature that enables users to change visualization speed in real-time.
 - Developed with HTML, CSS, JavaScript
- Institute Attendance Management System** Sept. 2022
Personal Project Github
 - Developed a DBMS for managing attendance of both students and faculties for various courses.
 - Analysed common attendance systems and identified key entities and their attributes required for this system.
 - Designed ER-model to visualize relationship between identified entities.
 - Implemented GUI using tkinter and utilized MySQL as Database management system.
 - Developed with MySQL, python and tkinter

TECHNICAL SKILLS

- Programming Language:** (proficient): C/C++, Python (familiar): HTML, CSS, JavaScript, Java, SQL
- Tools/Frameworks:** Git, Github, Linux, Windows, Tensorflow, pytorch, Bootstrap, cypress, mockito, tkinter

KEY COURSES TAKEN

- Mathematics Coursework:** Linear Algebra, Calculus, Complex analysis, Differential equations, Numerical Methods, Probability & Random Processes
- Programming Coursework:** Computer Programming, Data Structures and Algorithms (online course)
- Computer Science:** Databases, Computer Networking, Operating System, Object oriented programming & design
- Machine Learning:** Deep Learning : NLP, CV, Time-series, Regression, Classification, Boosting and bagging methods, Decision trees.

POSITIONS OF RESPONSIBILITY

- Head,** Utility Management Team, Presidential Council, Gymkhana, IIT Indore Aug. 2020 - Aug. 2021
- Mentor,** IIT Indore Summer of Code(IITISoC) 2021 June. 2021 - Aug. 2021

ACHIEVEMENTS

- Silver Medal,** Bosch's Traffic Sign Recognition Competition, 9th Inter IIT TechMeet, IIT Guwahati Mar. 2021