

MOIN BASHIR ZARGAR

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR, NIT SRINAGAR

Bachelor of Technology

Major in Information Technology

Cumulative GPA: 8.15

Srinagar, J&k

Jun 2020 - Jun 2024

GOVT. BOYS HIGHER SECONDARY SCHOOL

Senior Secondary, XII

Percentage : 91.6 %

Kishtwar, J&k

Dec 2017 - Dec 2018

SKILLS

Languages	C, C++, Python
Web	HTML, CSS, Javascript, Bootstrap
Frameworks	React JS, Node JS, Express JS, Flask
Database	MySQL, MongoDB
Tools	Git, GitHub, VsCode

WORK EXPERIENCE

SOFTWARE DEVELOPMENT INTERN

IIT Kharagpur, Rekhi Centre of Excellence for the Science of Happiness

Dec 2022 - Apr 2023

- Created a web application for assessing frontotemporal dementia, a type of mental disorder.
- Engineered user registration, test-taking functionalities, and secure data storage using Flask and SQL; deployed within IIT Kharagpur's Rekhi Centre labs. Managed a database of 500 tests conducted with various individuals.
- Devised a system to automatically create detailed analysis reports in PDF format based on user responses.

PROJECTS

MENTAL HEALTH ASSESSMENT WEBSITE

[Link](#)

- User Authentication and Testing:** Developed secure signup and login processes. Administered standardized PHQ tests for depression, anxiety, schizophrenia, and bipolar disorder to provide initial assessments.
- Personalized Chat Rooms and Sentiment Analysis:** Directed users based on test results and employed deep learning for covert sentiment analysis in personalized chat rooms, reaching a testing accuracy of 84%.
- Facial Emotion Recognition during Interactive Sessions:** Implemented facial emotion recognition during interactive sessions by analyzing users' emotional responses captured via a background camera, with a testing accuracy of 81%.
- Comprehensive Mental Health Assessment:** Integrated sentiment analysis and facial emotion recognition data. Results dynamically displayed on a dashboard using bar graphs as users interact with the web app.

KASHMIRI DICTIONARY

[Link](#)

- Designed an interactive English to Kashmiri dictionary featuring word translation and a daily "Word of the Day".
- Curated a poetry collection as part of the dictionary's cultural enrichment.
- Managed a database of over 5000 words, allowing user contributions after administrative approval to maintain database integrity and quality.

NETWORK SIMULATOR

[Link](#)

- Developed an Object-Oriented Programming based network simulator project, featuring functionalities across the OSI model's 5 layers: physical, data link, network, transport, and application.
- Implemented protocols including Stop and Wait ARQ, Selective Repeat, Token Passing, ARP, RIP, HTTP, and DNS.
- Simulated comprehensive data transmission, address learning, flow control, routing, and process-to-process communication functionalities; enhancing network efficiency and reduced packet loss by 15%.