Tanjilur Rahman

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GitHub
Linkedin
LeetCode
Portfolio Website

SKILLS

- **Python**:Skilled in Python with expertise in **OOP and Data structures and Algorithms**
- **Django**: Possessing proficiency in Django and adept in web application development, encompassing advanced features and best practices
- **HTML & CSS**: Competent in HTML and CSS, capable of creating visually appealing and functional web designs.Familiar with **Tailwind CSS** and **Bootstrap** for efficient and responsive web design.
- **JavaScript**: Beginner in JavaScript, with a focus on expanding skills, including understanding and manipulating the Document Object Model (DOM).
- **SQL:** Proficient in SQL, with practical experience in managing databases using PostgreSQL and MySQL.
- **GitHub** (Version Control): Proficient in using GitHub, skilled in committing, branching, and merging code.

EDUCATION

Bachelor of Science in Computer Science and Engineering (CSE)
BRAC University, Dhaka, Bangladesh
CGPA: **3.14** (on a scale of 4.0)

Research Study

1. **Comparative Analysis of EEG and fMRI for Enhanced Classification and Understanding of Sleep Stages Using Deep Learning**
   Description: This study applies bidirectional LSTM for EEG and ConvLSTM for fMRI data to classify sleep stages, enhancing diagnostic accuracy for sleep disorders and coma patient monitoring. The study achieved highest accuracy for Bidirectional LSTM model on EEG data which is 80.60% for detecting for 4 stage classification and for fMRI data the ConvLSTM model achieved 76.82% accuracy.

PROJECTS

1. Library Management System

Languages and Frameworks: Django, HTML, CSS, JavaScript, SQLite.

Description: Developed a comprehensive library website facilitating book borrowing and loan management based on book availability, with distinct interfaces for librarians, admins, and users. Features robust authentication and real-time book availability.

Key Features:

- Secure multi-role authentication system for users, librarians, and admins.
- Books can be loaned based on availability.
- CRUD operations for comprehensive library and user account management.
- Dynamic interface for real-time updates on book availability and transactions.

GitHub Repository: [**Link to the project**]

2. Personal Portfolio Website

Languages and Tools: Python, Flask, HTML, CSS, JavaScript.

Description: A dynamic personal and professional portfolio website with a contact form that captures user inquiries. Backend processing uses Python with the Flask framework, allowing for data storage and retrieval.

Key Features:

- Dynamic 'Contact Me' form that stores submissions in a CSV file format, enabling simple data persistence without a traditional DBMS
- Responsive design for compatibility across devices and screen sizes.
- Intuitive navigation and user-friendly layout.

GitHub Repository: Link

LiveProject: portfolio website

3. Virtual Assistant

Languages and Modules: Python, Speech Recognition, PyWhatKit, yfinance, PyJokes, webbrowser, datetime, Wikipedia API.

Description: A voice-activated assistant that performs tasks such as opening YouTube, browsing the internet, providing time and date information, and voice-to-text conversion.

Key Features:

- Voice command recognition for internet searches, opening websites, and YouTube playback.
- Retrieves stock market data using yfinance.
- Delivers jokes and entertainment through PyJokes.
- Capable of web browsing and general information queries.
- Provides current time and date.
- Accesses and relays information from Wikipedia based on voice commands.

GitHub Repository: Link to the project

Work Experience

June 2024-Present

Crystal Technology Bangladesh Ltd.(Assigned to National Institute of Cardiovascular Diseases, Sher-E-Bangla Nagar, DHAKA), [Green Road, Dhaka.]

Support Engineer

- Network Design and Maintenance: Helped the design and maintenance of network infrastructure to ensure optimal connectivity and security within the hospital setting.
- Server Administration: Manage server operations including updates, backups, and security compliance to ensure high availability and performance of critical systems.
- IT Automation: Develop and implement automation strategies to enhance operational efficiency and reduce manual workload across various IT functions.

- Technical Support: Provide comprehensive IT support to hospital staff, addressing issues related to hardware, software, and network systems to minimize downtime and enhance user productivity.
- Healthcare IT Compliance: Ensure all IT practices adhere to healthcare regulatory standards, focusing on maintaining high levels of data security and patient privacy.

EXTRA-CURRICULAR ACTIVITIES

1. Machine Learning Competition at Infixion 2023:

Event: Infixion 2023 ETE Day Event

Organizer: Department of Electronics and Telecommunication Engineering, CUET

Project Focus: Utilized Natural Language Processing (NLP) and BERT (Bidirectional

Encoder Representations from Transformers) to analyze and interpret a complex Bengali dataset.

Skills Gained: Enhanced proficiency in machine learning, data analysis, programming, and the application of cutting-edge NLP techniques in a linguistically diverse context.

2. Involvement in Brac University Cultural Club:

  Role: **Assistant General Body Member**

 Activities:

- Actively involved in organizing and performing multiple cultural events
- Planned and coordinated events with participants and faculty
- Managed logistics for events
- Demonstrated strong organizational skills
- Showcased effective teamwork abilities
- Exhibited leadership skills

3. Chess Workshop 'Tactical Checkmate 1.0':

- Event: Tactical Checkmate 1.0 Workshop
- Organizer: Brac University Chess Club
- Skills Developed: Enhancing strategic thinking, problem-solving, and analytical skills through advanced chess techniques and strategies.

4. Poetry and Recitation Workshop BRAC (RS):

- Event: Poetry and Recitation Workshop
- Location: Brac University (during Residential semester)

  Description: Participated in a poetry and recitation workshop, enhancing skills in literary analysis, public speaking, and creativity.

REFERENCES

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