INTURI BHARATH SAI

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OBJECTIVE

Passionate AI and ML student eager to apply theoretical knowledge and practical skills to real-world projects. Seeking opportunities to contribute to innovative solutions and grow within a collaborative environment.

EDUCATION

B.TECH in Computer Science with Specialization in AI and ML - 8.16 (CGPA)   **August 2021 - Present***
Vellore Institute Of Technology
Intermediate [MPC] - 84.6%   **June 2020 - July 2021**
Sri Gayatri Junior College,Guntupalli
Secondary School Certificate - 8.0 (CGPA)   **June 2018 - May 2019**
Nirmala High School, Vijayawada

SKILLS

- **Programming Languages:** Java, Python, HTML,CSS,JavaScript
- **Database/Query Language:** SQL, MongoDB
- **Web Development:** Cloud Computing, Mern Stack
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Deep Learning, Reinforcement Learning.
- **Tools:** Power BI,Microsoft Word, Excel, and PowerPoint,
- **Communication skills:** Strong Verbal and Written Communication.

TRAINING/CERTIFICATIONS

- AWS Certified Cloud Practitioner (AWS CCP) - Industrial Foundation Certificate
- Ethnus - Mern Full Stack Internship- MERN Industrial Global Certification
- Office Master - Workshop on Power Bi
- NVIDIA - Fundamentals of Accelerated Computing with CUDA C/C++
- NVIDIA - Fundamentals of Accelerated Computing with Python
- NVIDIA - Fundamentals of Deep Learning
- NVIDIA - Applications of AI for Predictive Maintenance
- NVIDIA - Building Transformer-Based Natural Language Processing Applications

WORK EXPERIENCE

SAB IT Services   **August 2024 - December 2024**
UI Designer
- As a UI Developer, I craft intuitive and adaptable user interfaces using HTML, CSS, and JavaScript, prioritizing seamless functionality across various browsers and devices. I work closely with UX designers to bring their visions to life, adhering to industry best practices and accessibility guidelines to create high-performing, inclusive digital experience.

Vie Labs Inc   **July 2022 - March 2023**
Marketing Executive
- Developed and executed marketing strategies, crafting engaging digital content for social media, email, and website campaigns to promote Vie Labs Inc. products and services.

PROJECTS

Title: IoT Security Measures for Smart Home Automation Systems
- Proposed a secure IoT authentication framework using **Elliptic Curve Cryptography (ECC)**. Focused on anonymous identity management, mutual authentication, and replay attack prevention to ensure privacy, data integrity, and protection against unauthorized access in smart home automation.

Title: Soil Moisture Tester
- Designed and implemented a functional Soil Moisture Tester using **Raspberry Pi**, **Python**, and the **GPIO** library. This project holds significant importance in agricultural contexts, offering farmers and gardeners immediate and precise insights into soil moisture levels. By enabling real-time monitoring and analysis, it aids in optimizing water usage and improving crop yields.

Title: Artificial Sight with Ultrasonic Sensor
- Created a smart walking stick for the visually impaired. It alerts users about obstacles ahead, improving their mobility and confidence. By integrating an **ultrasonic sensor**, the device gathers real-time data and provides auditory or tactile feedback. **Arduino** technology is used for efficient implementation.

Title: Handwritten Digit Recognition
- Developed a handwritten digit recognition, leveraging **Python programming**, and **deep learning** expertise with **Keras**, and **Tkinter** for **GUI development**. Skilled in overcoming challenges posed by diverse handwriting styles to accurately identify numerals from digit images.

Title: ChatBot Application
- Enhance Indian language chatbots by addressing linguistic challenges and using advanced **NLP** techniques to improve efficiency. Focused on **sentiment analysis**, **language translation**, and **intent recognition**. Explored cross-lingual embeddings and transfer learning for low-resource languages. Evaluate current applications in customer assistance, healthcare, and education, and identify opportunities for further development, such as multilingual approaches and incorporating voice and emotion recognition.

RESEARCH PAPERS

Title: Fake News Detection Using RoBERTa
- Researched an advanced method for fake news detection, merging text and image data through multimodal fusion. Used **RNN**s and **CNN**s, our model excels at identifying patterns in both text and images, surpassing conventional techniques. Extensive testing confirms its superior performance in spotting fake news. This innovative approach aids in combating misinformation and refining adaptive systems to preserve information integrity. Furthermore, employing **GPT** models enhances our capacity to detect textual inconsistencies and biases, bolstering our efforts against misinformation.

Title: Reinforcement Learning for Strategic Connect4: Deep Q-Network Approach
- Applied **reinforcement learning** (RL) techniques to enhance Connect4 gameplay, using **deep Q-networks** (DQN) to train agents for strategic decision-making. It tackles challenges such as the game's evolving complexity and balancing short-term gains with long-term strategies. Emphasis is on resolving the exploration-exploitation dilemma in RL to improve decision-making. The ultimate aim is to expand RL applications in strategic board games, deepen gaming understanding, and drive future advancements in the field.

Title: V-Connect Bridging Social Barriers in Higher Education Through Technology
- V-Connect is a robust social media platform developed using the **MERN** stack, comprising **MongoDB**, **Express.js**, **React.js**, and **Node.js** Inspired by popular platforms like Instagram, V-Connect offers users a seamless experience for sharing photos and videos, connecting with friends, and exploring new content. With its modern design implemented in **HTML** and **CSS**, coupled with React.js for dynamic user interfaces and Node.js with Express.js for scalable backend services, V-Connect redefines social networking by prioritizing user engagement and content discoverability.

AREA OF INTEREST

- Data Science (Machine Learning, Artificial Intelligence, Data Scientist)
- Information Technology
- Software and Web Development

ACHIEVEMENTS

- Served as **Vice-President** of Around The World Club(AWC), one of the leading clubs in our institution.
- Designated as a key member of the **Editing Team Lead** in the prestigious ViTonomic, Kalki Personality Development, Think & Thrive Clubs
- Esteemed Member of the Computer Society of India (CSI) club.

POSITION OF RESPONSIBILITIES

- Held the position of **School Representative**, providing effective leadership and guidance to the school community
- Held the position of **Secretary** in the Young Students Movement (YSM), providing effective leadership and guidance for the enhancement of the community

LANGUAGE PROFICIENCY

- Telugu - Proficient
- English - Proficient
- Hindi   - Intermediate
- French - Beginner

DECLARATION

I hereby declare that the above particulars of facts and information stated are true and complete to the best of my belief and knowledge.

Place: Andhra Pradesh   **I.Bharath Sai**