

SAATHVIKA BANDI

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EDUCATION

Bachelor of Technology (Indian Institute of Information Technology, Sricity) August 2020 - June 2024

- Computer Science Engineering (CGPA : 8.19)
- Relevant Courses: Artificial Intelligence, Machine Learning, Full Stack Development, Data Structures and Algorithms, Database Management, Object Oriented Programming

SKILLS

Technical Skills	ML, AI, HTML5, CSS3, JavaScript, MERN NodeJS, MongoDB, ReactJS, MySQL
Languages	Java, Python, C, C++
Frameworks	React JS, ANgular, Node JS, TensorFlow, PyTorch, Scikit-Learn, Bootstrap

PUBLICATIONS

Classification of Motor Imagery based EEG Signals Using Deep Learning Architecture

- Role: Second Author
- Status: Accepted
- Conference: INDICON 2023
- Pioneered a deep learning model (LSTM-MLP) for end-to-end classification of motor imagery from raw EEG signals, outperforming traditional methods in decoding right-hand and foot movements, advancing Brain-Computer Interface technology.

Classification of Motor Imagery Data using Ensembled Model

- Role: First Author
- Status: Submitted and waiting for the result
- Conference: INOCON 2023
- Researched Motor Imagery in Brain-Computer Interfaces, employing a feature-extraction and ensemble model approach that outperformed traditional methods, showcasing potential for real-time BCI applications.

ONGOING RESEARCH WORK

Lossless compression of Data in the field of Health Care IoT

October 24 - Present

- Executed advanced data compression strategies for EEG data within the Health Care IoT sector. Employed sophisticated Clustering (DBSCAN) and Encoding techniques, optimizing data transfer to fog devices and contributing to heightened system efficiency. This initiative underscores expertise in data science and IoT integration.

EXPERIENCE

Data Science Wing Lead *ConnexIon@IIITS*

October 24 - Present

- Led the Data Science Wing in the ConnexIon, the IoT club, overseeing a team of over 10 members to ensure the effective functioning of the club.
- Facilitated educational sessions on Data Science for junior members, contributing to knowledge dissemination within the team.
- Collaborated seamlessly with the ML team to ensure the effective integration and functionality of the code for the Vehicle verified access system project within the club.

PROJECTS

Classification of age related diseases using Deep Learning *DL, Preprocessing, EDA* January 23 - April 23

- Conducted rigorous analysis on a curated dataset containing features extracted from gene data.
- Implemented a sophisticated Sequential Deep Learning Model with five layers to extract meaningful patterns and insights, showcasing a commitment to advanced data analysis techniques.

Eye Detection *Open CV, Python*

March 23 - April 23

- Implemented real-time eye detection utilizing OpenCV, incorporating Haar cascades for accurate face and eye recognition. The system effectively discriminates between open and closed eyes, delivering a visual alert mechanism for enhanced user engagement.

How To Basic *ReactJS, NodeJS, MongoDB, ExpressJS*

August 22 - April 23

- A MERN Stack project to help people excel in their basic skills like cube-solving, sudoku, chess etc.
- Over 30 courses are available with specific feedback and ratings.
- Designed the schema that keeps feedback and ratings anonymous and abstract.

Employee Management App *Java, MYSQL*

October 21 - November 21

- Developed a command line application that helps users to perform CRUD operations.
- Managed a team of 4 members where I took the responsibility.
- Strengthened the App functionality using the 4 pillars of OOP concepts.

EXTRA-CURRICULAR ACTIVITIES

- Played a pivotal role as an Organizer for IIITS annual fest, Abhisarga, specifically contributing to the Stage and Stalls team by coordinating with various individuals for stall setups.
- Served as the Student Life Council Secretary, addressing issues related to mess, hostel, and sports, demonstrating a commitment to enhancing the overall student experience.
- Held the position of Sports Secretary for the academic year 2023-24, concurrently leading the Women's Basketball team as the captain.
- Currently serving as a core member of the sports team for the ongoing academic year, contributing to the continued success and development of sports activities.