Nilachala Sahoo

Final Year Undergraduate
Department of CSEA
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Education

•Indira Gandhi Institute of Technology, Sarang *2020-24*
Bachelor of Technology in Computer Science and Engineering CGPA: 9.52

•Sulagna Higher Secondary School, Balasore - Intermediate *2018-20*
Council of Higher Secondary Education (CHSE) Percentage: 90.33%

•Nara Singha High School, Karanj - Tenth *2015-18*
Board of Secondary Education, Odisha Percentage: 90.00%

Personal Projects

•Algo Wave *January'23 - Present*
A website for data structures and algorithms visualizations.
- The tool ensures complete responsiveness and user-friendliness, enabling active observation and experimentation with algorithms through dynamic visualizations.
- It effectively bridges theoretical concepts and real-world implementation, with a specific focus on showcasing applications in data structures.
- Technology Used: HTML, CSS, JavaScript, Visual Studio Code

•Agro Help *Project Link*
An AI/ML based web application which help to user detect diseases of plant through images.
- Engineered a robust CNN model on a diverse dataset of 40 plant disease classes, ensuring accurate disease recognition through image transformations and cross-validation.
- Designed a user-friendly interface for farmers to easily upload plant images, integrating Flask for efficient backend processing and disease diagnosis, enhancing accessibility.
- Technology Used: Python, CNN, OpenCV, Tensorflow, Matplotlib, HTML/CSS, Flask, Jupyter Notebook

•Sudoku Solver *Project Link*
A java based sudoku solver to solve any 9x9 sudoku puzzle.
- Developed a Java-based Sudoku solver employing recursion and backtracking algorithms, ensuring efficient resolution of 9x9 puzzles with error detection, input validation, and commitment to high-quality results.
- Technology Used: Java, Data Structures & Algorithms, Recursion, Backtracking, Visual Studio Code

•Tic Tac Toe *Project Link*
A popular Java-based Tic-Tac-Toe game with an adhering to object-oriented principles.
- Implemented a Java-based Tic-Tac-Toe game with a user interface for two players, featuring robust error handling and encompassing core game logic for real-time updates, winning condition checks, and graceful conclusion.
- Technology Used: Java, Object Oriented Programming Concepts, Data Structures, Visual Studio Code

Experience

•DRDO Summer Internship *May'23 - June'23*
User IP Info Project Link
- Contributed to the development of the 'User IP Info' web application using ASP.NET MVC, C#, and MS SQL Server, with a focus on robust features like user authentication, search capabilities, and CRUD operations.
- Designed a user-friendly interface ensuring privacy through restricted authentication, and our technology is now actively utilized within the organization.
- This experience provided profound insights into software development and database management within the esteemed research environment of DRDO.

Technical Skills and Interests

Languages: C/C++, Java, Python, Javascript, HTML/CSS
Web Dev Tools & Frameworks: Reactjs, ASP.Net MVC, Nodejs, Git, Github
Cloud/Databases: Microsoft SQL Server, Postgre SQL, Amazon AWS
Packages & Libraries: OpenCV, Tensorflow, Keras, Numpy, Pandas, Matplotlib
Relevent Coursework: Data Structures & Algorithms, Object Oriented Programming Concepts, Operating Systems, Database Management System, Software Engineering
Areas of Interest: Web Design and Development, Deep Learning, Competitive Coding
Soft Skills: Problem Solving, Competitive Analysis, Self-learning, Leadership, Time Managements

Certificates

- Certificate of Excellence in Introduction to Java by Coding Ninjas.
- Certificate of Excellence in Data Structures using java by Coding Nijas.
- AWS Academy Graduates – AWS Academy Cloud Foundations.
- AWS Academy Graduates – AWS Academy Data Analytics.