

Archana Mohanty

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CAREER OVERVIEW

Results-driven software engineer with expertise in full-stack development, machine learning, and enterprise solutions. Experienced in implementing advanced algorithms like CNN and KNN in real-world projects, including an eye-tracking system for healthcare. Proficient in Python, C++, .NET, SAP HANA, and MERN Stack, with a strong background in cloud computing and database management. Eager to apply my technical skills and collaborative approach as an Software Engineer to deliver impactful solutions.

SKILLS

Languages: C, C++, Java, Python, .NET, JavaScript, HTML5, CSS/SCSS

Frameworks: ASP.Net, SAP HANA, MERN Stack, Next.js, TailwindCSS, Bootstrap, Tensorflow, pytorch

Workflow: Azure, Git, GitHub, Tableau, MySQL, Salesforce configuration, selenium, MongoDB, CI/CD, CDS

Libraries: jQuery, Spring Boot, GraphQL, Express.js, Flask, XGBoost, Gatsby

PROJECTS

Eye-Tracking application for Coma patients | *DL, CNN, Computer Vision, React.js* May 2024 – Present

- Developed an advanced eye-tracking system using Convolutional Neural Networks (CNN) to assist comatose patients in communicating their needs through eye movements.
- Integrated machine learning with web technologies to create a responsive and user-friendly interface, enabling healthcare providers to monitor and respond to patient needs more effectively.
- Implemented real-time data processing to ensure immediate recognition and response to patients' eye movements.

Face Detecting Attendance System | *Python, ML(KNN), OpenCV* Nov 2023 – Dec 2023

- Developed a user-friendly interface that allows seamless integration with existing school management systems, enhancing overall efficiency.
- Employed OpenCV and HaarCascade to achieve reliable face detection, ensuring high accuracy and low error rates in real-time applications.
- Implemented the k - Nearest Neighbor (KNN) classification algorithm for face recognition.
- Conducted rigorous testing to ensure the system's robustness under various lighting conditions and angles.

Rental Listing Website | *HTML, CSS, JavaScript, Bootstrap, Git* May 2023 – June 2023

- Designed and implemented a comprehensive rental listing platform using HTML, CSS, JS, and ReactJs, providing a seamless user experience.
- Developed backend integration with SQL to handle user data and listings efficiently, ensuring the platform's reliability and scalability.
- Implemented search and filter functionalities to help users find rental properties that meet their specific criteria.
- Integrated a secure user authentication system to protect user data and enhance trust in the platform.

EDUCATION

Vignan Institute of Technology and Management

CGPA: 8.2 /10

Bachelor's in Computer Science and Engineering

Nov. 2020 - June 2024

- Researched on the use of microbots for medical applications, exploring innovative solutions to health problems.
- Developed complex ideas using web technologies and Java enhancing my expertise in team management, interpersonal communication, and delivering quality work.

COURSEWORKS

Developing Front-End Apps with React - IBM | Software Engineering Tools, Debugging, Event Handling

Bits and Bytes of Computer Networking - Google | Network Architecture, Network Security, Problem Solving

Introduction to Cloud Computing - IBM | Service models, Architecture, Cloud Encryption, Cloud storage

Introduction to Relational database and SQL - Coursera | Database, Data Science, Leadership and Management