SARBESWAR PANDA

📍 **Nayagarh, Odisha, 752077**

📞 +91-82609 16384 ✉ sarbeswarpanda143@gmail.com in linkedin.com/in/sarbeswar-panda/ ⬛ /Sarbeswarpanda04 🌐 Portfolio

Profile Summary

- Strong foundation in Data Structures, Algorithms, and Object-Oriented Programming, with hands-on experience in C, Java, and Python to build efficient, scalable software systems.
- Proficient in core computer science fundamentals (DBMS, Operating Systems, problem-solving) with a focus on clean code, performance, and reliable system design principles.

Relevant Coursework

- Data Structures & Algorithms
- Object-Oriented Programming
- Database Management Systems
- Operating Systems
- Computer Networks
- Software Engineering
- Machine Learning
- Artificial Intelligence

Experience

Ardent Computech Pvt. Ltd.   **July 2024 -August 2024 | Jun 2025 – Jul 2025**
Software Engineer Intern (AI/ML)   *Kolkata, West Bengal*

- Selected twice for the same role based on consistent performance, technical contribution, and reliability
- Built end-to-end machine learning pipelines using Python, including data preprocessing, feature engineering, model training, and evaluation
- Developed and optimized machine learning models for Human Emotion Recognition and Loan Approval Prediction through iterative tuning and performance analysis
- Applied structured problem-solving and analytical techniques to improve model accuracy, reliability, and overall workflow efficiency

Projects

Human Emotion Recognition | *Python, OpenCV, Machine Learning* | *GitHub*   **July 2024 - August 2024**

- Developed a computer vision–based emotion recognition system using OpenCV to detect and process facial features from images and live video streams.
- Implemented face detection and preprocessing pipelines (grayscale conversion, resizing, normalization) to prepare data for model training.
- Applied supervised machine learning algorithms to classify human emotions and evaluated performance using standard metrics.
- Enabled real-time emotion detection by integrating OpenCV with live camera input for continuous facial analysis.

FreeStream – Live TV Streaming Platform | *HTML, CSS, JavaScript, PWA, HLS.js* | *GitHub*   **Dec 2025 - Jan 2026**

- Built a production-ready mobile-first Progressive Web App (PWA) for streaming 639+ live TV channels, supporting news, entertainment, movies, sports, and regional content.
- Implemented HLS-based adaptive streaming using HLS.js to handle varying network conditions and ensure smooth playback, enabling smooth playback across modern browsers and devices.
- Designed and developed core platform features including search, category & language filtering, favorites, watch history.
- Integrated Service Workers and Web App Manifest to enable offline support, fast load times, and installable PWA functionality.
- Optimized performance through lazy loading, efficient DOM updates, and caching strategies, ensuring a responsive user experience.

Technical Skill

- **Programming Languages:** C, Java, Python, JavaScript
- **CS Fundamentals:** Data Structures & Algorithms, OOP, DBMS, OS, Computer Networks
- **Web Development:** HTML, CSS, JavaScript, PWA, HLS.js
- **Machine Learning & CV:** Supervised Learning, OpenCV
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Firebase, Service Workers

Education

Gift Autonomous College   **August 2023 - August 2027**
Bachelor of Technology in Computer Science(Artificial Intelligence)-CGPA : 7.92   *Bhubaneswar, Odisha*

Nayagarh Autonomous College   **July 2021 - May 2023**
Intermediate Science(CHSE) : 63%   *Nayagarh, Odisha*

Kabiraj Baidyanath High School   **May 2019 - March 2021**
Matriculation (BSE) : 83%   *Bhapur, Odisha*

Certifications

- Getting Started with Firebase Cloud Firestore (*Google Cloud Skills Boost*) *Credential*
- Introduction to Cybersecurity Essentials (*IBM*) *Credential*
- Introduction To HTML (*Coursera*) *Credential*