

Pankaj Kumar Sahoo

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Jaleswar, Odisha - 756086, India

OBJECTIVE

Results-driven AI & Data Science professional skilled in Machine Learning, Deep Learning, and Data Analytics, with experience in predictive modeling and business intelligence to deliver data-driven insights and scalable solutions.

EDUCATION

- Balasore College Of Engineering And Technology** 2026
Bachelor of Technology in Computer Science and Engineering Balasore, Odisha
- Jaleswar Higher Secondary School** 2022
+2 Science Jaleswar, Odisha
- Paikasida High School** 2020
10th Paikasida, Odisha

TECHNICAL SKILLS

- Programming Languages:** Python
- Databases and Data Management:** SQL, MySQL, PostgreSQL, ETL (Extract, Transform, Load)
- Data Visualization & BI:** Power BI, Excel
- Web Technologies:** HTML, CSS, JS
- ML/DL Frameworks:** Pandas, NumPy, Matplotlib, Seaborn
- Models & Techniques:** LLM, Random Forest, SVM, ResNet-50, LeNet, GNN, predictive modeling, anomaly detection
- Tools & Platforms:** Google Colab, Jupyter Notebook, Git & Github, Ollama, ML Studio, VS Code, PyCharm
- Soft Skills:** Analytical Thinking, Problem Solving, Critical Thinking, Technical Communication, Team Collaboration, Adaptability, Time Management

WORK EXPERIENCE-SWAPPL INTELLECT SOL PRIVATE LIMITED

AI-Powered RAG Chatbot System

Tools: Scikit-Learn, TensorFlow, Keras

- Developed an AI-powered RAG chatbot using Python, LangChain, FastAPI, FAISS/ChromaDB, and Google Gemini.
- Built an end-to-end pipeline for web scraping, embeddings, vector search, and context-aware question answering.
- Integrated the chatbot into a responsive website using HTML, CSS, JavaScript, and iframe-based deployment.

EyeCareAI – AI-Powered Eye Disease Prediction and Recommendation System

Tools: Scikit-Learn, TensorFlow, Keras

- Addressed delayed eye disease detection by developing an AI-based retinal image classification system.
- Built a deep learning model using Python, TensorFlow, Keras, and Scikit-Learn with Gemini AI integration and Streamlit deployment.
- Achieved 97.33% accuracy and 0.9537 F1-score on unseen retinal images for reliable disease prediction.

INTERNSHIPS

Web Development Intern

Octanet Services Pvt. Ltd., Bhubaneswar

- Restaurant Management System:** Developed a web-based system using HTML, CSS, and JavaScript to manage menu display, order processing, and billing through an interactive interface.
- Designed a responsive UI to improve user experience and streamline restaurant operations.

GIS Engineer Intern -NAVAL SOLUTION | Bhubaneswar, Odisha

Tools: Arc Map

- Developed Python-based scripts for processing LOR (Land Ownership Records), spatial data editing, and validation for cadastral GIS datasets.
- Digitized and managed geospatial data (parcels, buildings, roads) using ArcGIS and Python workflows, ensuring accurate datasets for Phase-2 and Phase-1 GIS mapping projects.

CERTIFICATIONS

- Oracle Cloud Infrastructre 2025 Certified Data Science Professional** Sep, 2025
- Programming Fundamentals using Python Part-2 (Infosys spring board)** June, 2025
- Programming Fundamentals using Python Part-1 (Infosys spring board)** June, 2025
- 30-Days Power BI Micro Course** March, 2025

CO-CURRICULAR ACTIVITIES

- Attended Workshop on "Intelligent Automation : Crafting The Future"** 12-14 October 2023
- Attended Workshop on "Building Future Skills for Global Workforce Campus to Corporate"** 24 - 25 July 2024
- Python using AI Workshop** 22 June, 2025