Mahaprasad Patro

B.Tech student in Information Technology

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○ Github

PROFESSIONAL SUMMARY

B.Tech graduate with knowledge in Python, SQL, machine learning algorithms, and business intelligence. Skilled in building 5+ predictive models, performing data analysis on datasets of 10k+ records, and applying data preprocessing and feature engineering techniques. Proficient in Python libraries such as Pandas, NumPy, Scikit-learn, and OpenCV for data manipulation, machine learning, and computer vision. Adept in NLP, database management, data visualization, and developing interactive applications using Streamlit and Jupyter. Familiar with basic HTML, CSS, JavaScript, and SQL. Ready to leverage analytical and technical skills to deliver data-driven solutions and assist organizations in making informed decisions.

EDUCATION

Bachelor of Technology in Information Technology (CGPA 7.78), *NIST University*   2022 – 2026
                                                                                                    Berhampur, India

TECHNICAL SKILLS

Languages
Python, MySQL, HTML, CSS, JAVASCRIPT

Libraries & Frameworks
Pandas, NumPy, Matplotlib, OpenCV, Scikit-learn, streamlit, Flask, FastAPI, TensorFlow

Tools & OS
Git, VS Code, Jupyter Notebook, Excel, Powerpoint

PROJECTS

Customer Churn Analysis using Python
- Developed a machine learning model to predict customer churn with an accuracy of 82%
- Identified key patterns in customer behavior contributing to a 20% reduction in attrition

MedBot - AI-Powered Medical Chatbot
- Developed MedBot, an intelligent chatbot designed using Streamlit and Gemini API to provide medical advice based on symptoms, history, and user input analysis to assist users with basic medical queries and symptom-based guidance.
- Implemented NLP techniques to interpret user input and deliver relevant health information, improving accessibility and user engagement.

Face Recognition-based Attendance System
- Designed and developed an automated attendance system using face recognition powered by the Haar Cascade algorithm.
- Enabled real-time detection and attendance logging by integrating camera input with user identity verification, Eliminated the need for manual attendance marking.

TRAINING & INTERNSHIP

Artificial Intelligence & Machine learning, *Central Toolroom and Training Centre*   06/2025 – 07/2025
                                                                                                    Bhubneswar
- Completed AI & ML training at CTTC, gaining hands-on experience in data preprocessing, predictive modeling, and key Python libraries (Pandas, NumPy, Scikit-learn).
- Implemented supervised and unsupervised learning algorithms on real-world datasets, strengthening practical understanding of machine learning workflows.

AI Intern, *Edunet Foundation*   01/2025 – 02/2025
                                                        Remote
- Developed a Health Assist Chatbot capable of providing basic health guidance, symptom analysis, and wellness tips using AI-powered responses.
- Integrated NLP and medical knowledge to enable the chatbot to understand user queries and suggest relevant health-related information.

Data Science using Python, *NIST University*   07/2024 – 08/2024
                                                                    Berhampur
- Completed Data Science training using Python, covering data analysis, preprocessing, feature engineering, and visualization techniques.
- Gained hands-on experience with Pandas, NumPy, Matplotlib, and Scikit-learn for data manipulation, EDA, and building basic predictive models.

CERTIFICATIONS

Demystifying Networking, *NPTEL* ⧉   01/03/2023