JHUMARANI TALA

Data Science | Machine Learning | Data Analytics

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Portfolio **GitHub** **LinkedIn**

PROFESSIONAL SUMMARY

B.Tech Data Science student with an 8.5/10 CGPA and hands-on experience in Python, SQL, data analysis, machine learning, and AI through practical projects. Experienced in data preprocessing, EDA, feature engineering, model evaluation, visualization, and deploying interactive applications with Streamlit. Seeking opportunities in Data Science, Data Analytics, and Machine Learning/AI.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, HTML, CSS
Data Analysis: Pandas, NumPy, Excel
Data Visualization: Matplotlib, Seaborn, Power BI
Machine Learning & AI: Scikit-learn, Deep Learning, Classification, Feature Engineering, Model Evaluation, OpenCV, Librosa
Web & Frameworks: Streamlit, Django
Databases: SQLite, MySQL, MongoDB
Tools: Git, GitHub

PROJECTS

House Price Prediction **GitHub** **Live Demo**

Python | Pandas | NumPy | Scikit-learn | Streamlit

- Built a machine learning pipeline to predict house prices using the Ames Housing dataset, including data cleaning, preprocessing, feature engineering, and model evaluation.
- Developed an interactive Streamlit application for generating house-price predictions from property features.

Banking Fraud Analytics **GitHub** **Live Demo**

Python | Pandas | NumPy | Scikit-learn | Streamlit

- Developed a fraud analytics and machine learning workflow for identifying potentially fraudulent banking transactions.
- Compared classification models and evaluated performance using accuracy and ROC-AUC, with results presented through an interactive Streamlit dashboard.

Jhuma AI — Local AI Chatbot **GitHub**

Python | Streamlit | Ollama | Qwen 2.5 3B

- Built a local AI chatbot with conversational memory, local chat persistence, adjustable response creativity, and response statistics.
- Integrated Ollama with Qwen 2.5 3B for local inference with model checks, error handling, and downloadable chat history.

Customer Churn Prediction **GitHub** **Live Demo**

Python | Pandas | NumPy | Scikit-learn | Streamlit

- Built an end-to-end churn prediction pipeline on 7,032 customer records with preprocessing, EDA, feature engineering, model training, and evaluation.
- Compared Logistic Regression and Random Forest; Logistic Regression achieved 80.38% accuracy and 0.836 ROC-AUC.

AI Resume Matcher **GitHub** **Live Demo**

Python | NLP | Scikit-learn | Streamlit

- Built an AI-powered resume analysis and job-matching application comparing candidate skills with job requirements.
- Developed an interactive Streamlit interface for resume analysis, matching, and actionable candidate insights.

AI Video Highlight Generator **GitHub** **Live Demo**

Python | OpenCV | Librosa | MoviePy | NumPy | Streamlit

- Developed a pipeline combining visual motion and audio-energy analysis to identify high-interest video moments.
- Implemented excitement scoring, highlight selection, video generation, and a Streamlit interface.

EDUCATION

Bachelor of Technology (B.Tech) in Data Science Aug 2023 – May 2027
Swami Vivekananda University, Barrackpore, Kolkata | CGPA: 8.5+
Coursework: Machine Learning, Deep Learning, DSA, Database Management, Statistics, Data Visualisation, Web Development

Higher Secondary — Science | Nachinda J.K. High School (H.S.), Purba Medinipur Apr 2021 – Mar 2023 | 69%
Secondary — WBBSE | Nachinda J.K. High School (H.S.), Purba Medinipur 2015 – 2021 | 83.83%

CERTIFICATION & LANGUAGES

NPTEL Certification — Software Engineering | Score: 61% | Languages: English (Professional), Hindi (Fluent), Bengali (Native)