

SHREYA BHAT

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SUMMARY

Electronics and Instrumentation Engineering graduate with strong applied skills in data science, machine learning, and AI-driven solution development. Proven track record of delivering reliable, data-driven outcomes, recognized with “Performer of the Month” three times for consistency and impact. Known for strong focus, effective time management, and the ability to translate complex data into meaningful insights. Brings a unique blend of creativity and patience, enabling thoughtful problem-solving in fast-paced, real-world environments

SKILLS

- **Programming & Frameworks:** Python(Adv), SQL(Adv), REST APIs, HTML, CSS, Javascript
 - **Data Processing:** EDA, Pandas, NumPy, Scipy
 - **Data Science & ML:** Hypothesis Testing and Statistical analysis, Scikit-learn, XGBoost, TensorFlow, Neural Networks, Model Evaluation, OpenCV, KMeans
 - **Model Deployment:** Gradio, Flask, Django, AWS Lambda, REST APIs, Streamlit, MERN stack(basic)
 - **Databases & Tools:** MySQL, SQLite, Git/GitHub,
 - **Visualization:** Tableau, PowerBI, Matplotlib, Seaborn, Plotly
 - **Other:** Jupyter Notebook, Visual Studio Code, Microsoft Office Suite, Google Suite
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EDUCATION

Great learning PGP in Data Science with specialization in Gen AI	2025(Ongoing)
Bangalore institute of technology, Bengaluru Electronics and Instrumentation Engineering - {CGPA- 8.5}	2024

WORK EXPERIENCE

Engineering Trainee – Instrumentation Engineer, CIPLA Ltd, Goa	2024 - 2025
<ul style="list-style-type: none">• Monitored and analyzed real-time process data using BMS/SCADA systems, improving equipment performance and reliability.• Maintained calibration and performance logs of critical instruments, supporting data-driven predictive maintenance and reducing downtime.• Prepared structured reports and visualizations of sensor data, reducing troubleshooting time by 15% and supporting informed operational decisions.• Collaborated with cross-functional teams to apply data insights in pharmaceutical manufacturing and quality control.	

PROJECTS

1. Generative AI for test data Synthesis

GenAI | Neural Networks | CTGAN | Deep Learning

- Designed and deployed an end-to-end MLOps pipeline for privacy-preserving synthetic data generation using CTGAN.
- Incorporating automated training, statistical utility evaluation, privacy risk assessment, and production deployment.
- Developed backend APIs and a frontend interface to upload datasets, trigger model training, and download generated data.
- Addressed data privacy and class imbalance by replacing sensitive data with realistic synthetic samples.

GitHub: https://github.com/Shreyabhat11/Synthetic_data_generation

2. AI Hallucination Detector

Sentence Transformers | RAG | Vector Search | DuckDuckGo API

- Built an AI hallucination detection system that audits LLM outputs using multi-stage claim verification, web evidence retrieval, logical consistency checks, and risk scoring.
- Designed a FastAPI backend with a Streamlit dashboard for real-time safety analysis using Gemini models and vector similarity search.

GitHub: <https://github.com/Shreyabhat11/ai-hallucination-detector>

3. RAG Chatbot

NLP | RAG | LangChain | FAISS | Gemini AI API

- Developed a Retrieval-Augmented Generation (RAG) chatbot combining large language models with document retrieval for context-aware responses.
- Implemented semantic search using vector embeddings and FAISS to retrieve relevant documents in real time.
- Integrated LLMs through LangChain pipelines to generate accurate and contextual answers.
- Designed the system to handle domain-specific knowledge bases efficiently.

GitHub: https://github.com/Shreyabhat11/RAG_chatbot

4. Credit card Fraud Detection

Python | scikit-learn | SMOTE | Pandas | Matplotlib

- Built a machine learning classification system to detect fraudulent credit card transactions.
- Performed data preprocessing, feature engineering, and handled class imbalance using SMOTE.
- Evaluated multiple models using ROC-AUC, precision, recall, and F1-score.
- Visualized performance metrics to support model selection and business interpretation.

GitHub: <https://github.com/Shreyabhat11/Credit-card-fraud-detection>

5. Resume Matcher

Python | NLP | TF-IDF | Cosine Similarity

- Designed an automated resume-to-job matching system using NLP techniques.
- Applied text preprocessing, TF-IDF vectorization, and cosine similarity to score resumes.
- Reduced manual resume screening effort by ranking candidates based on relevance.
- Built a modular pipeline for easy integration into recruitment platforms.

GitHub: <https://github.com/Shreyabhat11/resume-matcher>