

SHREYA BHAT

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SUMMARY

Analytical and detail-oriented engineering professional transitioning into data analysis and data science. Strong background in instrumentation engineering with hands-on experience in machine learning, predictive modeling, and data-driven problem-solving. Passionate about leveraging Python, SQL, and statistical methods to deliver insights, optimize processes, and support decision-making.

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

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
MES Chaitanya PU college, Sirsi 2nd PU-Karnataka State Board {Percentage - 87.83%}	2020
SV English medium High school, Siddapur 10th - Karnataka State Board {Percentage - 92.48%}	2018

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.	
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PROJECTS

1. Company-Employee Tracker API | Django, Python | Sep, 2023

- Built a secure Django REST API for managing company–employee data with authentication and CRUD operations.
- Designed an admin-controlled interface to streamline data handling and improve API security.
- Integrated JWT-based authentication and role-based permissions to ensure data privacy.
- Optimized database queries using Django ORM and tested endpoints with Postman for reliability and scalability.

2. Medicine recommendation system | ML, Python | March, 2024

- Developed ML models to predict diseases from symptoms with high accuracy.
- Deployed via Flask, providing preventive health insights (diet, workout, medication) to enhance user engagement.
- Implemented feature engineering and data preprocessing for better model accuracy and interpretability.
- Enabled real-time symptom-based predictions through a user-friendly Flask interface connected to the ML backend.

3. Human activity recognition using smartphone data | ML, Python | May, 2024

- Processed smartphone sensor data to train classification models (DT, RF, SVM, ANN).
- Achieved strong performance in recognizing unseen activity patterns, improving model generalizability.
- Applied time-series feature extraction and dimensionality reduction to enhance model efficiency.
- Validated results through confusion matrices and cross-validation, demonstrating robust multi-class classification accuracy.

4. Prediction of Solar irradiance | ML, Python | Aug, 2024

- Analyzed meteorological data (radiation, temperature, humidity, pressure) to extract key features.
- Built ML models to predict solar radiation, supporting optimization of solar energy production.
- Conducted feature correlation and scaling to improve regression model performance.
- Delivered predictive insights useful for energy planning and sustainability-driven decision-making.

5. Netflix Data Analysis and Recommendation System | ML, Python | Jun 2024

- Performed exploratory data analysis on Netflix datasets to uncover trends in genre popularity, content ratings, and viewing patterns.
- Built a personalized recommendation system using content-based and collaborative filtering techniques.
- Visualized insights with Python libraries (Matplotlib, Seaborn) to highlight user preferences and content distribution.
- Optimized similarity calculations with cosine metrics, improving recommendation precision and user engagement potential.