RISHITA PRIYADARSHINI SARAF

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EDUCATION

Vellore Institute of Technology, Bhopal   2022- 2026
BTech In Computer Science and engineering   CGPA: 8.76   (expected)

TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **Databases:** MySQL
- **Technical Skills:** Data Analysis, Data Visualization, Microsoft Excel, Power BI, SQL, Machine Learning Algorithms, Deep Learning, NLP, Image Processing, Generative AI
- **Tools & Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, OpenCV

PROJECTS

MRI Brain Tumor Detection using Deep Learning   July, 2025
- Trained a CNN model in PyTorch to classify MRI brain scans as *Tumor* or *Healthy*, achieving 100% training accuracy.
- Built a custom dataset class with preprocessing, augmentation, and train-validation split for reliable performance.
- Evaluated through feature map visualization, confusion matrix, and loss curves to monitor learning and overfitting.
- Tech Stack: Python, PyTorch, NumPy, OpenCV, Matplotlib, scikit-learn

Driver Drowsiness Detection using YOLOv5   June 2025
- Developed a real-time monitoring system with YOLOv5 to detect *awake* vs *drowsy* states from webcam feed.
- Collected and annotated a custom dataset, fine-tuned YOLOv5, and assessed via loss curves, precision-recall, and accuracy.
- Built a real-time inference pipeline, demonstrating practical AI/ML deployment in safety-critical scenarios.
- Tech Stack: Python, PyTorch, OpenCV, YOLOv5, NumPy

AI-Driven Google Play Analytics Dashboard   Feb 2025
- Built an interactive Plotly dashboard to analyze Google Play Store apps with cleaning, transformation, and NLP-based sentiment analysis.
- Created time-based trends, word clouds, and category insights to uncover user feedback patterns and app performance.
- Deployed online, showing end-to-end data handling, visualization, and actionable insights for decision-making.
- Tech Stack: Python, Pandas, NumPy, Plotly, NLTK (VADER), Scikit-learn, Netlify

WORK EXPERIENCE

Data Analyst Intern - NullClass (Remote)   Jan 2025 – Feb 2025
- Analyzed Google Play Store app reviews and performed sentiment analysis to extract user behavior insights.
- Cleaned and preprocessed large datasets using Python and Pandas for accurate trend identification.
- Built and deployed an interactive HTML dashboard using Plotly to visualize sentiment and feature feedback.
- Tech Stack: Python, Pandas, NumPy, Plotly, Jupyter Notebook, HTML

Data Science Intern - Cognifyz Technologies (Remote)   Dec 2024 – Jan 2025
- Built a linear regression model to predict restaurant ratings based on customer data and key features.
- Performed data cleaning, feature selection, and exploratory analysis to enhance model accuracy.
- Visualized patterns and correlations using Seaborn and Matplotlib to support business insights.
- Tech Stack: Python, Pandas, Scikit-learn, Seaborn, Matplotlib, Jupyter Notebook

ADDITIONAL INFORMATION

Certifications:
- Oracle Data Science Professional Certificate
- IBM GEN AI Using IBM Watsonx certificate

Achievements: Ranked 78th in the Zelestra Hackathon on HackerEarth for building a solar panel efficiency prediction model using XGBoost, achieving 89.88% accuracy.