RAVITEJA VADDE

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# Objective

Aspiring Data Scientist with hands-on experience in Machine Learning, Deep Learning, and Data Analytics. Passionate about leveraging AI-driven solutions to solve real-world problems. Proficient in Python, SQL, and visualization tools, with a strong foundation in model development and deployment.

# Education

B.Tech CSE Specialization in Artificial Intelligence & Data Science  
St. Mary's Group of Institutions, Guntur | 2021 - 2025 (Final Year)

# Technical Skills

- Programming & Libraries: Python (NumPy, Pandas, Matplotlib, Scikit-learn, Plotly)  
- Databases: SQL (MySQL) - Data Extraction, Query Optimization  
- Machine Learning & Deep Learning: Supervised & Unsupervised Learning, Model Evaluation, CNN, RNN, LSTM, NLP  
- Data Visualization: Power BI, Tableau  
- Data Analytics: Data Cleaning, Statistical Analysis, Predictive Modeling  
- Tools & Deployment: OpenCV, PyTorch, TensorFlow, Flask, Streamlit

# Experience

Data Science Trainee | Besant Technologies, Bengaluru (July 2024 - Jan 2025)  
- Analyzed large datasets to extract meaningful insights, improving data-driven decision-making.  
- Led a data analytics project, increasing data accuracy and reporting efficiency by 15%.  
- Developed predictive models to forecast key business metrics, optimizing resource planning.

# Projects

1. Deep Learning Project: Advanced Wild Animal Detection & Alert System (YOLOv5)  
- Developed a real-time animal detection system using YOLOv5 & OpenCV.  
- Implemented an alert system that triggers deterrent sounds (e.g., gunshot, bee buzz).  
- Trained the model on wildlife datasets with data augmentation & transfer learning.  
- Technologies: Python, YOLOv5, OpenCV, TensorFlow, PyTorch, Real-Time Video Processing

2. Machine Learning Project: Loan Default Prediction  
- Built classification models (Logistic Regression, Random Forest, XGBoost).  
- Optimized model performance using hyperparameter tuning & cross-validation.  
- Evaluated models using accuracy, precision, recall, F1-score, and AUC-ROC metrics.  
- Technologies: Python, Scikit-Learn, Pandas, NumPy, Flask, Streamlit

# Certifications

- SQL Certification – HackerRank.  
- Data Science Course Completion - Besant Technologies.  
- Data Science & Full-Stack Web Development Internship - DataValley.AI

# Achievements & Extra-Curricular Activities

- Hackathon Participant - Competed in Datavalley.AI & Braino Vision hackathons.  
- 5-Star in HackerRank - Python & MySQL problem-solving.  
- Problem Solving in CodeChef.  
- Main Lead of Final Year Project on Wild Animal Detection & Alert System.