Rakshitha A J

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PROFESSIONAL SUMMARY

Data Science undergraduate with hands-on experience in machine learning, computer vision, and speech processing applications. Experienced in Python-based data analysis and real-world problem solving through industry internship. Seeking entry-level Data Science or Machine Learning Engineer roles.

EDUCATION

Bachelor of Engineering - Computer Science (Data Science), *ATME College of Engineering*
2022 – Present
CGPA: 7.85/10

TECHNICAL SKILLS

Languages: Python, SQL, JAVA

Framework/Tools: Frameworks: Pandas, Numpy, Scikit-Learn, Matplotlib | Tools: Power BI, Excel, PowerPoint, Tableau, MySQL, SQLite

Databases: MySQL, MongoDB

Platforms: PyCharm, Jupyter Notebook, Visual Studio Code, Intellij IDEA

Soft Skills: Rapport Building, Strong Stakeholder management, People Management, Excellent communication

EXPERIENCE

Glowlogics, *Data Science Intern*
2025 – Present

- Cleaned and processed real-world datasets using Pandas and NumPy
- Built Python-based data pipelines and automated reporting tasks
- Applied machine learning models for analysis and prediction
- Collaborated with engineers to deploy solutions into production
- Improved workflow efficiency through automation

CERTIFICATIONS

Python for Data Science - NPTEL
(Certified)

Python for Beginners - Coursera

Basics of Machine Learning - Infosys Springboard

PROJECTS

Multilingual Al Speech Recognition & Translation System, *(Python, Flask, Google Translate API, gTTS)*

- Developed web app converting speech and text into 5 Indian languages
- Integrated speech-to-text, translation, and text-to-speech modules
- Automated translation reducing manual effort by ~70%
- Implemented real-time processing and deployment

Real-Time Object Detection System,
(Python, OpenCV, YOLOv3)

- Built real-time webcam object detection and labeling system
- Used pre-trained deep learning models for accurate recognition
- Optimized performance for fast inference
- Detected people, bags, bottles and other common objects

E-commerce Market Basket Analysis
Developed Django web app to analyze customer transaction data
Implemented Apriori/FP-Growth algorithms using Pandas & ML libraries
Generated association rules (support, confidence, lift)
Built recommendation engine for "Frequently Bought Together" products
Created admin dashboard for visualization and insights
Improved cross-selling strategy and customer purchase value

Flood and Landslide Prediction using Machine Learning Algorithm

Collected and preprocessed environmental and rainfall datasets
Performed feature engineering and exploratory data analysis
Trained ML models (Random Forest, Decision Tree, Logistic Regression)
Evaluated models using accuracy, precision, recall, and F1-score
Built Flask web app for real-time input and prediction
Visualized risk zones and generated early warning alerts
Enabled data-driven disaster preparedness and safety planning

Sales & Expense Analysis Dashboard, *Microsoft Excel*
Sales & Expense Analysis Dashboard – Microsoft Excel
Organized and cleaned raw sales and expense data
Created pivot tables for revenue, cost, and profit analysis
Built interactive dashboards with charts and slicers

Used advanced formulas (SUMIFS, VLOOKUP/ XLOOKUP, IF, INDEX-MATCH)
Automated monthly reports and performance tracking
Identified trends to optimize budgeting and improve profitability