


Dheeraj Reddy Tiyyagura

 [GitHub](#)

|  [LinkedIn](#)

|  dheerajreddy700@gmail.com

|  +91 9848172466

 Hyderabad, Telangana, India, 500016.

SUMMARY

A Data Science undergraduate skilled in Python, SQL, OOP, and Machine Learning with a passion for solving analytical problems and transforming data into meaningful insights. Strong communication, problem-solving, and leadership abilities gained through academic projects and collaborations.

TECHNICAL SKILLS

Languages: Python, SQL, C

Concepts: Object-Oriented Programming (OOP), Machine Learning, Data Analytics, Data Visualization

Tools: Power BI, NumPy, Pandas

Web: HTML, CSS

PROJECTS

AI-Integrated Decision Support System for Smart Agriculture (IJNRD Published) [GitHub](#)

- Developed AI-driven models for crop recommendation, soil fertility analysis, fertilizer prediction, plant disease detection, and rural development support.
- Applied **Random Forest (99% accuracy)**, Decision Tree, and CNN models while integrating education, healthcare, and infrastructure modules.
- Authored a comprehensive study featured in IJNRD that introduced data-driven methodologies for agricultural practices.

Deepfake Detection on Social Media [GitHub](#)

- Built a deepfake tweet detection system using Deep Learning and FastText embeddings.
- Applied CNN, Random Forest, and Logistic Regression models to classify social media content.
- Improved misinformation detection and contributed to safer digital interactions.

Smart Traffic Accident Hotspot Prediction System [GitHub](#)

- Developed an end-to-end traffic accident analytics system using Python, Machine Learning, and Power BI on 7M+ records.
- Performed geospatial hotspot detection and accident severity prediction using Random Forest and XGBoost models, and created interactive Power BI dashboards.
- Achieved **81.29% accuracy** with Random Forest and provided evidence-based insights, identified key factors contributing to accident severity and hotspot formation.

EDUCATION

2022–2026 B.Tech Computer Science (Data Science), **CMR Technical Campus** (CGPA: 8.25/10)

2020–2022 Intermediate (MPC), **Narayana Junior College** (Percentage: 70.7%)

2020 Class X, **Sri Chaitanya School** (CGPA: 10/10)

CERTIFICATIONS

Meta (Coursera): Meta Data Analyst Professional Certificate — 2025 (175 hours)

Google Cloud: Data Analyst Track, Generative AI (45 hours, 24 skill badges)

Cisco Networking Academy: Cyber Threat Management — 2025 (16 hours)

LEADERSHIP EXPERIENCE

Core Member, **Lexis Club** — **CMR Technical Campus** 2023–2025