MANOGNA TAMMISETTI

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# Summary

* Proficient in data engineering and analysis with expertise in SQL, Python, and data modeling.
* Hands-on experience in machine learning, model optimization, and data processing at scale.
* Skilled in collaborating across teams to build and deploy impactful data solutions.

# Work Experience - Internships

**Data Scientist Trainee**  
 **Insignia Consultancy Solutions** | Dec 2023 – June 2024

* Developed and optimized the Rampsure YOLO Model for cattle classification and insurance verification.
* Utilized Roboflow to annotate and preprocess datasets, significantly improving the efficiency of model development.
* Streamlined end-to-end project workflows using tools like GitLab for version control and Docker for containerization.
* Integrated MongoDB and MySQL to manage high-volume, structured, and unstructured data effectively.
* Achieved high-accuracy object detection results by training models with YOLOV8 and YOLOV9 frameworks.

**Project and Engineer Trainee**  
 **High Radius** | Jan 2021 – Apr 2022

* Built and deployed AI-enabled Fintech B2B cloud applications to enhance customer payment workflows.
* Designed data models and machine learning pipelines to predict customer payment dates using XGBoost, achieving 92% accuracy.
* Conducted in-depth analysis to identify and refine user requirements, improving product usability and functionality.
* Collaborated with cross-functional teams to ensure seamless integration of AI-driven features into production systems.

# Education

**University at Buffalo, SUNY** | Aug 2024 – June 2026  
 Master of Science in Data Science

**SRM Institute of Science and Technology** | Aug 2019 – May 2023  
 Bachelor of Technology in Electronics and Communication Engineering

# Projects

## PROJECTS

## IoT-Based Deforestation and Anti-Poaching System

## Designed an Arduino-based monitoring system integrating sensors (temperature, flex, metal, UV) to detect suspicious activity.

## Implemented GPS functionality for real-time location tracking and data logging on a web interface.

## Utilized image processing for continuous forest monitoring and K-means clustering to detect deforestation, achieving 94% accuracy.

## Collaborated with a multi-disciplinary team to deploy a scalable and cost-effective IoT-based solution.

## Multi-Class Dog Breed Classification

## Developed an end-to-end pipeline for dog breed detection using deep learning techniques and Mobilenetv2 architecture.

## Preprocessed image datasets into tensors, enhancing workflow with TensorFlow, NumPy, and TensorBoard.

## Achieved high model performance by optimizing hyperparameters and using advanced augmentation techniques.

## Built a user-friendly interface for seamless input and output visualization, enabling real-world usability.

# Skills

* **Technical:** SQL, Python, C++, R, Tableau, Power BI, TensorFlow, PyTorch, Scikit-learn, MongoDB, Data Modeling, Statistical Methods.
* **Soft Skills:** Communication, Leadership, Time Management, Teamwork.

# Certifications

SQL for Data Science, Coursera

AI & ML Bootcamp, Udemy

Python Bootcamp, Udemy

# Scholarships

Scholarship of merit by SRMIST

2020 - 2022