Chandana D Swamy

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Career Objective

Motivated and detail-oriented M.Tech graduate in Artificial Intelligence & Data Science with a strong foundation in data analysis, statistical modeling, and data visualization. Eager to apply analytical skills, programming expertise, and problem-solving abilities to extract actionable insights and support data-driven decision-making in a dynamic organization.

Education

M.Tech – Artificial Intelligence & Data Science
MVJ College Of Engineering, Bangalore, 2026

B.Tech – Electronics & Communication Engineering
KIT, VTU, Tiptur , 2023

Technical Skills

- **Data Analysis & Visualization:** Excel, Power BI, Tableau, Matplotlib, Seaborn
- **Programming:** Python (Pandas, NumPy, Scikit-learn), SQL, HTML, Core JAVA, R-Programming,, Advance Excel, Matlab.
- **Statistics & ML Concepts:** Descriptive & Inferential Statistics, Regression, Classification, Clustering, ML Models
- **Databases:** MySQL
- **Other Tools:** Jupyter Notebook, Google Colab, Git, Anaconda

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Projects:

1. Flight Delay Prediction using Machine Learning

- Collected and explored 2015 flight dataset from **Kaggle** containing schedule, weather, and operational details.
- Performed data cleaning, handling missing values, and feature engineering to improve prediction accuracy.
- Applied exploratory **data analysis (EDA)** using **Pandas, Matplotlib, and Seaborn** to identify key delay factors.

- Built and evaluated multiple **ML models** (Logistic Regression, Random Forest, XGBoost) for classification.
- Achieved **86% accuracy** in predicting delayed vs. on-time flights.
- Implemented the solution in **Jupyter Notebook** using **Python** for reproducibility and visualization.

2. Automated Pet Feeding System using Machine Learning

- Designed and implemented an intelligent pet feeding system that automates feeding schedules based on pet behavior and activity patterns.
- Collected and processed sensor data to train a **machine learning model** for predicting optimal feeding times.
- **Tools & Technologies:** Python, OpenCV, TensorFlow/Keras, Visual Studio, HTML, Twilio, Anaconda, CNN, ML Algorithms.

3. Prediction of Disease in Areca Nut Plant *(M.Tech Project)*

- Collected and preprocessed plant leaf image dataset for disease classification.
- Applied Machine Learning algorithms **(Random Forest, SVM, CNN)** to identify disease types.
- Achieved high accuracy **(91%)** in prediction through hyperparameter tuning and feature extraction.
- **Tools & Technologies:** Python, OpenCV, TensorFlow/Keras, Scikit-learn, Jupyter Notebook.

Strengths

- Strong analytical thinking and problem-solving abilities
- Quick learner with adaptability to new tools and technologies
- Effective communication and teamwork skills

Declaration

I hereby declare that the above information is true to the best of my knowledge.

Yours sincerely
Chandana D Swamy