CHAKRAPANI GAJJI

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EDUCATION

Kansas State University (*Master's in Data Analytics***)** **Expected 2025**

Sri Indu College of Engineering and Technology (*Bachelor's – CSE AI&ML***)** **2020-2024**

EXPERIENCE

GRADUATE RESEARCH ASSISTANT (Kansas State University)

- Managed and organized datasets of over 10,000 soil records, ensuring **98% data accuracy** for soil research studies.
- Conducted statistical analyses on soil health, moisture, and fertility metrics, contributing to insights on soil treatment impacts.
- Enhanced data quality control processes, increasing research workflow efficiency by **20%** through streamlined data management practices.

DATA SCIENCE INTERN (Oasis Infobyte)

- Developed machine learning models achieving up to **97% accuracy** in automating tasks like email classification and marketing sales predictions.
- Optimized model-building pipeline, reducing execution time by **30%** and improving forecast reliability.

PROJECTS

VIVIDTONES

- Implemented Convolutional Neural Networks (CNNs) with pre-trained deep learning models to colorize grayscale images, achieving **realistic color outputs** and improving color accuracy by **10%**.

PRECISION OBJECT COUNTING SYSTEM

- Built a computer vision-based tool for real-time object and people counting, leveraging OpenCV to improve detection precision by **15%** in dynamic environments.

IRIS FLOWER SPECIES DETECTION

- Achieved **97% classification accuracy** using Support Vector Classifier (SVC), utilizing petal and sepal dimensions for species prediction

EMAIL SPAM DETECTION

- Improved email classification to **98% accuracy** using Logistic Regression with feature extraction on text data to enhance spam detection capabilities.

ADVERTISING SALES PREDICTION

- Reached **98% accuracy** in sales forecasting using Random Forest models, increasing the reliability of sales projections by optimizing model features.

GUI-BASED WEATHER FORECASTING APPLICATION

- Developed a user-friendly Python app integrated with the OpenWeatherMap API, delivering real-time forecasts with **95% accuracy**.

TECHNICAL SKILLS

Languages	:	Python, C, Java.
DBMS	:	SQL, MySQL.
Libraries & Frameworks	:	Pandas, NumPy, Matplotlib, OpenCV, Sci-kit Learn, Seaborn, Tkinter.
Data Science	:	EDA, Data Visualization (Tableau), Data Preprocessing, Data Analysis, Statistical Analysis.
Machine Learning	:	Classification, Regression, Time-Series Analysis, Deep Learning.
Others	:	MS Excel, Git, GitHub, Jupyter Notebook, Google Collab, Anaconda.

PUBLICATIONS

A Survey on Large Language Models: Overview and Applications (*Published in* **IRJET**, *June 2024 - Analysis of trends and applications in AI-driven language models***)**

CERTIFICATIONS

DATA ANALYSIS WITH PYTHON
Coursera and IBM - *Emphasis on data manipulation, statistical analysis, and visualization in Python* 2023

INTRODUCTION TO DATA SCIENCE
Infosys Springboard - *Core concepts in data handling, machine learning, and business intelligence.* 2023

PYTHON OBJECT-ORIENTED PROGRAMMING
LinkedIn Learning - *Fundamentals and best practices in Python's OOP for scalable applications.* 2022

SQL ESSENTIAL TRAINING
LinkedIn Learning - *Focus on efficient database querying and management with SQL* 2022

PYTHON BASICS
Coursera and IBM - *Introduction to Python programming and basic scripting* 2021