# CHAKRAPANI GAJJI

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## EDUCATION

**Kansas State University – Manhattan, KS** **Expected 2026**
Master of Science in Data Analytics
**Sri Indu College of Engineering and Technology – Hyderabad, India** **2020-2024**
Bachelor of Technology in Computer Science Engineering (Artificial Intelligence & Machine Learning)
GPA: 3.4/4.0

## EXPERIENCE

**Graduate Research Assistant** **August 2024 - Present**

**Kansas State University – Manhattan, KS**
- Managed datasets of 10,000+ soil records using Python and SQL, achieving 98% data accuracy for soil health research.
- Conducted statistical analysis on soil fertility metrics, delivering actionable insights for sustainable agriculture practices.
- Streamlined data quality processes, improving workflow efficiency by 20% through advanced data preprocessing techniques.

**Data Science Intern** **February 2023 – March 2023**
**Oasis Infobyte – Hyderabad, India**
- Developed machine learning models (Random Forest, Logistic Regression) with 97% accuracy for email classification and sales forecasting.
- Optimized ML pipelines using Python and Scikit-Learn, reducing execution time by 30% and enhancing prediction reliability.

## PROJECTS

**Vivid Tones: Image Colorization with CNNs**
- Designed and implemented Convolutional Neural Networks (CNNs) using TensorFlow to colorize grayscale images, improving color accuracy by 10%.

**Precision Object Counting System**
- Engineered a real-time computer vision tool with OpenCV and Python, increasing object detection precision by 15% in dynamic settings.

**Iris Flower Species Detection**
- Built a Support Vector Classifier (SVC) model with Scikit-Learn, achieving 97% accuracy using petal/sepal data for species prediction.

**Email Spam Detection**
- Developed a Logistic Regression model with 98% accuracy, leveraging NLP feature extraction to enhance spam detection efficiency.

**Advertising Sales Prediction**
- Created a Random Forest model in Python, achieving 98% accuracy in sales forecasting by optimizing feature selection and hyperparameters.

**GUI-Based Weather Forecasting Application**
- Programmed a Python-based GUI app with Tkinter and OpenWeatherMap API, delivering real-time weather forecasts with 95% accuracy.

## TECHNICAL SKILLS

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|---|---|---|
| **Languages** | : | Python, C, Java. |
| **DBMS** | : | SQL, MySQL. |
| **Libraries/Frameworks** | : | Pandas, NumPy, Matplotlib, OpenCV, Sci-kit Learn, Seaborn, Tkinter. |
| **Data Science** | : | Exploratory Data Analysis, Data Visualization, Data Processing, Data Analysis, Statistical Analysis. |
| **Machine Learning** | : | Classification, Regression, Clustering, and Time-Series Analysis. |
| **Tools** | : | MS Excel, Git, Tableau, GitHub, Jupyter Notebook, Google Collab, Anaconda. |

## PUBLICATION

**A Survey on Large Language Models: Overview and Applications**
International Research Journal of Engineering and Technology (IRJET) | June 2024

## CERTIFICATIONS

**Data Analysis with Python -** Coursera (IBM) | 2023
**Introduction to Data Science –** Infosys Springboard | 2023
**Python Object-Oriented Programming –** LinkedIn Learning | 2022
**SQL Essential Training –** LinkedIn Learning | 2022
**Python Basics –** Coursera (IBM) | 2021