

CHAKRAPANI GAJJI

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EDUCATION

Masters of Science in Data Analytics

Expected 2026

Kansas State University, Manhattan, KS

Bachelors of Technology in Computer Science Engineering (AI & ML)

2020-2024

Sri Indu College of Engineering and Technology, Hyderabad, India

GPA: 3.4/4.0

EXPERIENCE

Graduate Research Assistant

August 2024 – Present

Kansas State University – Manhattan, KS

- Managed datasets of over 10,000 soil records using Python and SQL, achieving 98% data accuracy for soil health research.
- Discovered that the type of fertilizer used affected nutrient runoff into local water sources, influencing a revised fertilization protocol, and reducing water contamination incidents by 22%.
- Improved data quality processes by 20% through advanced data preprocessing techniques.
- Skills: Python, SQL, Statistical Analysis, Data Preprocessing, Data Management.

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 machine learning pipelines using Python and Scikit-Learn, reducing execution time by 30%.
- Redesigned feature selection process for sales forecasting models which led to a 15% improvement in prediction accuracy, which was the most impactful enhancement of the model during the internship.
- Skills: Python, Scikit-Learn, Machine Learning, Data Analysis, Feature Engineering.

PROJECTS

Vivid Tones: Image Colorization with CNNs

- Built Convolutional Neural Networks (CNNs) using TensorFlow to colorize grayscale images, improving color accuracy by 10%.
- Skills: Python, TensorFlow, CNNs, Image Processing, Machine Learning.

Precision Object Counting System

- Created a real-time computer vision tool using OpenCV and Python, increasing object detection precision by 15%.
- Skills: Python, OpenCV, Computer Vision, Real-Time Processing.

Iris Flower Species Detection

- Developed a Support Vector Classifier (SVC) model with Scikit-Learn, achieving 97% accuracy for species prediction.
- Skills: Python, Scikit-Learn, Classification, Data Analysis.

Email Spam Detection

- Designed a Logistic Regression model with 98% accuracy using NLP feature extraction for spam detection.
- Skills: Python, Scikit-Learn, NLP, Classification, Data Preprocessing.

Advertising Sales Prediction

- Implemented a Random Forest model in Python, achieving 98% accuracy in sales forecasting.
- Skills: Python, Scikit-Learn, Random Forest, Regression, Feature Engineering.

GUI-Based Weather Forecasting Application

- Programmed a Python GUI app using Tkinter and OpenWeatherMap API for real-time weather forecasts with 95% accuracy.
- Skills: Python, Tkinter, API Integration, Data Visualization.

TECHNICAL SKILLS

Programming Languages	: Python, C, Java.
Database Management	: SQL, MySQL.
Libraries/Frameworks	: Pandas, NumPy, Matplotlib, OpenCV, Sci-kit Learn, Seaborn, Tkinter.
Data Science	: Exploratory Data Analysis, Data Visualization, Data Processing, Statistical Analysis.
Machine Learning	: Classification, Regression, Clustering, and Time-Series Analysis.
Tools	: MS Excel, Git, Tableau, GitHub, Jupyter Notebook, Google Colab, 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
- Learning C, LinkedIn Learning, 2022
- Python Basics, Coursera (IBM), 2021