

KRISHNA VAMSI UPPALA

(608) 709-9798 | Krishnavamsiuppala@gmail.com | [LinkedIn](#) | [github](#) | Open to Relocation

POFESSIONAL OVERVIEW:

Experienced Data Analyst and Artificial Intelligence Engineer with a strong background in **Generative AI (Gen AI)**, **Computer Vision**, **NLP**, and **Cloud AI solutions**, specializing in **infrastructure document analysis and map interpretation**. Experienced in developing **AI-driven search engines**, **deep learning models**, and **scalable cloud-based AI solutions**. Adept at integrating AI models with platforms like **Google Maps**, **Bluebeam**, and deploying AI on **AWS**, **Azure**, and **GCP**. Proven success in **optimizing AI workflows**, **enhancing model accuracy**, and **improving document/image search efficiency** skills. Passionate about applying AI-driven technologies to enhance personalized marketing and consumer engagement.

SKILLS:

Programming & Query Languages: Python (Scikit-Learn, TensorFlow), R (ggplot2, Tidyverse), SQL
Machine Learning & AI: Deep Learning (CNN, RNN, LSTMs), Neural Networks, NLP (Transformers, BERT, GPT Models, LLaMA, Hugging Face), Computer Vision OpenAI API, FastAPI, LangChain, ONNX, Bluebeam
Predictive Modeling: Regression Analysis, Hypothesis Testing, Time-Series Forecasting, Feature Engineering, Anomaly Detection.
Data Visualization: Power BI (DAX, Power Query, Dashboarding), **Tableau** (Data Storytelling) **Excel**, Google Data Studio
Data Engineering & Big Data: **ETL Pipelines** (SSIS, Airflow, Hadoop), **Apache Spark**
Cloud Services: AWS (S3, Lambda, SageMaker, QuickSight), Google GCP (BigQuery, Looker, Spanner, vertex AI), Azure AI **Database & CI/CD Tools:** MySQL, PostgreSQL, MongoDB, DynamoDB, Rest API, Flask, JIRA, Agile, Scrum, GIT, Docker, Kubernetes
Certifications: [Google Advanced data analytics](#) | [Intermediate python](#) | [Azure AI fundamentals](#).

WORK EXPERIENCE:

- Artificial Intelligence Intern, Springer Capital** USA, May 2024 – Dec 2024
- Designed and optimized **Generative AI models for document analysis and map interpretation**, enhancing search efficiency by **30%**.
 - Developed **deep learning-based infrastructure document recognition system**, reducing manual document processing by **40%**.
 - Implemented **computer vision models for satellite and infrastructure image analysis**, improving image recognition accuracy by **25%**.
 - Deployed **AI-powered search engine** with NLP capabilities, reducing retrieval time by **35%**.
 - Deployed ML models on AWS SageMaker and Azure AI services, improving real-time inference capabilities.
- Graduate Student Assistant, NLP Course, UNT** USA, Jan 2024 – Apr 2024
- Assisted in developing **AI-driven course projects**, mentoring over 80+ students on machine learning concepts.
 - Conducted workshops on **computer vision, NLP, and deep learning**, bridging industry applications and academic learning.
 - Conducted workshops on **Deep Learning, Large Language Models (LLMs), and Image Recognition**.
- ECIL, Junior Analyst Intern** India, Apr 2021 - Aug 2022
- Analyzed **sensor telemetry data**, optimizing maintenance cycles & **reducing operational costs by 25%**.
 - Developed **machine learning models (scikit-learn, TensorFlow)** to detect anomalies in manufacturing, **reducing defects by 15%**.
 - Created **SQL-powered reports & dashboards**, enhancing **real-time production monitoring** for managers.
 - Streamlined data pipelines** using **ETL (SSIS, SQL, Pandas)**, increasing data accuracy by **99%**.
 - Used tools like **MATLAB**, and **Git** for data processing and collaborative development.

ACADEMIC PROJECTS:

- Movie Rating and Revenue Prediction**
- Built a predictive model using Random Forest, XGBoost, and Neural Networks in Python to forecast ratings and revenue trends.
 - Developed an interactive dashboard to provide real-time insights, helping stakeholders make data-driven decisions.
- AI-Powered Personalized Marketing System**
- Built a real-time recommendation engine using collaborative filtering and deep learning to optimize customer engagement.
 - Utilized NLP and sentiment analysis to analyze customer reviews and adjust marketing strategies dynamically.
- Crime Data Analytics & FBI API Integration**
- Developed a real-time crime hotspot detection system using AWS S3, EC2, PySpark & QuickSight.
 - Integrated FBI API data to build an interactive data visualization tool for law enforcement agencies.
- Real-Time Satellite Image Analysis for Urban Planning**
- Built Computer Vision models (CNN, OpenCV) to analyze satellite maps for government planning agencies.
 - Implemented AI-based anomaly detection for identifying unauthorized land use and infrastructure defects.
- Comparative Analysis of Cryptocurrency Returns and Stock Returns**
- Built LSTM and SVM models using Python and PyTorch to compare crypto and stock market through predictive analysis.
 - Analyzed historical trends to generate actionable investment insights, supporting informed decision-making.

EDUCATION:

- University of North Texas (UNT)**, Denton, TX Aug 2023 - Dec 2024
Master of Advanced Data Analytics
- Malla Reddy institute of technology and sciences**, Hyderabad, India Aug 2018 - May 2022
Bachelor of Technology, Electronics and communication engineering