

Alexander Reddy

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“Created Data-Science [Machine Learning, Deep Learning, Gen AI] content in LinkedIn for around 3K+ followers”

EDUCATION:

National Institute of Technology, Warangal, India.

Jun 2004

EXPERIENCE:

Machine Learning Engineer, Qvantel, Hyderabad

March 2020 – Oct 2023

- Developed advanced functionalities for the Algro IVD smart camera, focusing on precise barcode decoding, accurate liquid level measurement, and deep learning-based cap detection. Ensured robust performance in IVD applications, enhancing sample tracking, analytical precision, and quality control in medical environments.

SKILLS:

Programming	Data Manipulation Analysis	Data Visualization	Machine Learning	Deep Learning	Natural Language Processing (NLP)	Image Processing	Deployment	Cloud
Python	Pandas	Matplotlib	Scikit-learn	TensorFlow/Keras	NLTK	OpenCV	Flask	AWS
SQL	NumPy	Seaborn	XGBoost	PyTorch	SpaCy	Pillow	Streamlit	Azure

PROJECT Experience:

Telecom Churn Analysis - Prediction [Python | Machine Learning | Flask | AWS]

Jan 2024

[GitHub Repo](#)

- Conducted comprehensive data analysis to identify key indicators of customer churn, leading to actionable insights for the business.
- Utilized Python and machine learning libraries (Scikit-learn, XGBoost, Pandas) to build and validate the predictive model.
- Improved prediction accuracy by 20% through feature engineering and hyperparameter tuning.
- Successfully developed and deployed a machine learning model that accurately predicts customer churn with an AUC-ROC score of 0.85

Wound Images Classification - [Python | Deep Learning | OpenCV | Flask | AWS]

Apr 2024

[GitHub Repo](#)

- Successfully developed a multi-class wound classifier using CNN to achieve the goal of increasing accuracy from 50% to 85%.
- Up-sampled images to increase the size of the dataset, enhancing model training
- Applied Min-Max Scaling to normalize the features within a specified range, improving model performance.
- Implemented data augmentation techniques to artificially expand the diversity of the training data, boosting the model's generalization capabilities.
- Introduced Dropout regularization to prevent overfitting by randomly deactivating neurons during training.
- Tuning hyperparameters such as epochs, learning rate, batch size, and optimizer settings to optimize model performance.

RAG Chatbot - [Gen AI | Python | Bert | LangChain | LLM | Streamlit | AWS]

July 2024

[GitHub Repo](#)

- Successfully integrated text-based document processing, significantly improving the chatbot's ability to understand and respond to user queries with relevant information.
- Developed and implemented OCR technology to handle and interpret data from various PDF formats, including scanned documents.
- Enabled real-time information gathering from web URLs using web scraping techniques, ensuring the chatbot provides up-to-date responses.
- Created robust modules for accessing and retrieving data from SQL databases, enhancing the chatbot's speed and accuracy in fetching information.
- Combined multiple data sources (text, PDF, URL, SQL) into a single chatbot framework, showcasing expertise in data integration and improving overall user satisfaction.

OTHER ACTIVITIES:

- Loved reading the **Books**,
- Directed others with preparation journey with posts / DMs / Calls.