





# JAGADEESH SANNIBOINA

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## Summary:

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I am Jagadeesh and my passion for building Machine-Learning solutions has made me pick machine-learning engineering as a career. To work for an organization that provides me the opportunity to improve my skills and knowledge in Data Science enabling growth for the organization.

## Education:

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**Madanapalle Institute of Technology and Science (CGPA: 8.3/10)**

*B. Tech, Electronics and Communication Engineering*

**July 2017 — June 2021**

*Madanapalle-AP*

**AP Residential Junior College (APRJC) (97.6%)**

*Intermediate MPC*

**July 2015 — Apr 2017**

*VenkataGiri-AP*

## Experience:

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 **LTIMindtree**

**Oct 2023 — Aug 2024**

*Product Engineer*

*Chennai*

*Forecast models Implementation: (Client: [fosfor](#))*

- Fosfor is tool that having one of the components as decision designer which is having the capability to generate narrative based upon our question and it will be generate meaning full insights
- Develop the runtime base forecast models like ARIMA-X, VAR & VARMAX, Neural Network model in order to get the required future values
- Integrate these models in restful Api using fastAPI to get the requests, response and CICD pipeline via Jenkins
- Creating the orchestration using airflow and maintain models via docker and kubernetes pods to increase scaling.

 **Carelion Global Solutions**

**June 2021 — July 2023**

*Software Engineer*

*Bengaluru*

*Privacy Assignment Using RAG Model: (Client: [Anthem](#))*

- Objective: Developed a robust solution for the privacy assignment of LOINC codes to protect sensitive health information.
- Technologies Used: RAG (Retrieval-Augmented Generation) model, bge-env 1.5, Mistral 8\*7B model.
- Project Details: Data Collection and Documentation: Gathered comprehensive information on sensitive and privacy-related health categories, including HIV, sexual transmission, substance abuse disorder, drug rehabilitation, abortion
- Created detailed context documents to store the collected information.
- Embedding and Vector Selection: Utilized bge-env 1.5 to embed privacy-related information into vector representations.
- Implemented an efficient algorithm to select the top 5 nearest context-related vectors, ensuring high relevance and accuracy.
- Model Integration: Integrated the selected vectors with the Mistral 8\*7B model.
- Designed and implemented a mechanism to pass LOINC codes along with the top 5 vectors and a prompt to the model.
- Ensured that the model leverages the context for accurate privacy assignment and categorization.

*Risk Stratification: (Client: [Anthem](#))*

- Build a classification model like (XGBoost, RF, etc.) to tell the patients their risk of diabetes.
- Expertise in working with noisy data, unbalanced datasets, and Model tuning, and Performed Feature Engineering on data using Python libraries like Pandas and analyzed Model Prediction accuracy using Classification reports and confusion Matrix.
- Designed a workflow template using Kubeflow pipelines and models with unit testing integrating a CI/CD pipeline of bitbucket including a model registry
- Involving the program and model testing like Unit, Regression, and A|B Testing.
- Be involved in technology research, and capability building across newer technologies and tools in ML/DL

## Automation in DevOps: (Client: [Anthem](#))

- Python code to migrate one environment to another of the CTM folder i.e., DEV to SIT and vice versa.
- We need to fill the color of the Control M folder details in Excel by comparing the old and new files of XML format and need to get text reports by comparing Elastic Scheduling Platform (ESP) text reports, Control-M XML Reports
- We have decreased 60% of human efforts in Control M

## Certifications/Additional Courses:

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- TCS code vita passed Aug 2020— Sep 2020
- Machine Learning Course passed which is conducted by NPTEL Jan 2020— Mar 2019

## Technical Skills:

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**Programming:** Python, R(Basic), DSA.

**Database:** SQL, MongoDB.

**Research Tools and Libraries:** Pandas, Matplotlib, Seaborn, Scikit-Learn, PySpark, Keras, OpenCV, TensorFlow, Nltk, Flask, fastapi, Boto3.

### Concepts:

- **Machine Learning:** Supervised/unsupervised and ensemble model, EDA, FE, Hyper-parameter tuning, Model metrics.
- **Natural Language Processing:** Word2Vec, Glove, TF and IDF, LLM (BERT, GPT), Transformers and Self-Attention, Transfer Learning.
- **Deep Learning:** ANN, CNN (it's architectures), LSTM, GRU, GAN, NST, Vision Transformer. Transfer Learning, Variational AE.
- **Computer Vision:** YOLO, Object segmentation, Tracking and detection localization, Data Argumentation, edge detection.

**MLOps (Basic):** Git, Bitbucket, Kubeflow.

**Visualization Tool:** PowerBI (Intermediate)

## Projects *Personal:*

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Object detection using Sift features | CV [\[LINK\]](#) May 2024 — June 2024

- Written the code for matching one object into another image or video using sift features

Sentiment Analysis Using Hugging Face | NLP [\[LINK\]](#) May 2023 — June 2023

- We can find whether the sentence is positive or negative by using the pre-trained model from Hugging Face
- I used the transformer pipeline library from the hugging face model and streamlet as the deployment

Image Style Adding | DL [\[LINK\]](#) Apr 2023 — May 2023

- This project is based on adding our new styles of original images like artists.
- It is based on the deep learning concept i.e., Neural Style Transfer
- Streamlit as frontend and TensorFlow hub pre-trained model

Login Website | SQL [\[LINK\]](#) MongoDB [\[LINK\]](#) Aug 2022 — Sep 2022

- Developed the sample Login page using Rest API Framework (Flask) and backend as SQL and MongoDB as well.
- I learned the Curd operations on SQL, MongoDB, and Rest API requests like POST, GET, and PUT management.

## Languages:

- Telugu (Native)
- English

## Interests:



## Personal Details:

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