Deshbhooshan G. Mahindrakar

*Team Leader/Tech Lead*

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An experienced professional with over 6 years in 4.6 Years Gen AI & Data Science and overall experience of 6.10 years of hands-on experience responsible for developing and implementing AI and ML solutions, collaborating with cross-functional teams, building and deploying models, and maintaining them to ensure they continue to meet business requirements. Skilled in Python, Flask, TensorFlow, PyTorch, and AWS,Azure, IIS servers NLP using Deep learning, Transformers using Huggingface and GenAI using LLMs(GPT-4.o, LLama3.2, RAG) using Langchain and pipelines workflow and Computer Vision Techniques using CNN & YOLO models. Passionate about using AI to solve complex problems and improve business processes.

04/2024 – 11/2024

Mumbai, India

04/2020 – 04/2024

Bengaluru

01/2017 – 04/2019

Aurangabad, India

# Professional Experience

**Team Leader/Tech Lead,** *Epicenter Technologies Pvt. Ltd.*

 Provide innovative solutions to business challenges by leveraging the latest advancements in AI technology, ensuring the delivery of effective and cutting-edge solutions tailored to organizational needs.

 Utilize Python, GenAI , LLM models, Yolo models to design, develop, and deploy machine learning models on IIS server,AWS and Azure, tailored to specific business applications, ensuring alignment with organizational goals.

 Collaborate with team members to assess current technologies and identify opportunities for enhancement that align with project goals.

 Conduct daily scrum meetings to facilitate communication, collaboration, and accountability within the team.

 Manage project assets, ensuring they are properly organized and accessible to team members.

 Develop and maintain a comprehensive standard operating procedure (SOP) for AI project workflows.

 Monitor project timelines and deadlines, providing support and guidance to team members to help them meet objectives.

**Gen AI Engineer,** *Kingston Info Solution Services*

 Utilize Python, TensorFlow, and PyTorch to design, develop, and deploy machine learning models on AWS and Azure, tailored to specific business applications.

 Work closely with cross-functional teams to gather business requirements and create AI solutions that align with organizational goals.

 Perform data pre-processing, feature engineering, and model tuning to optimize performance, while implementing monitoring and logging tools for efficient operation of deployed models.

**Service Engineer,** *ACE Techno Services*

 Calibration, testing and maintenance of instruments from Electrical, Mechanical, Thermal and Pressure stream

 Documentation for calibration certificates

 Collaborate with team members for continuous improvement and meet the deadline  Preparing and maintaining all documents like Inspection agreement, Quality

Presentation, Customer complaint and analysis data.

2016

Aurangabad, India

06/2011

Aurrangabad, India

07/2009

Aurangabad, India

# Education

**Bachelor of Engineering in Electrical Electronics & Power HSC Electronics,** *Vasantrao Naik College for Science*

**SSC,** *St. Xavier's High School*

**Relevant coursework - Artificial Intelligence, Machine Learning, Data Science, Algorithms, Computer Vision, Deep Learning**

# Skills

**Python** — Pandas, Generative AI , Numpy, Regex, Scikit learn, Matplotlib, Seaborn, SciPy, NLTK  **Machine Learning** — Fundamentals, Linear & Logistic Regression, Naive Bayes, K-NN, Decision Tree, Random  **NLP** — Fundamentals, Text Preprocessing, Vectorization, Word2Vec, TF-IDF, RNNs, LSTM, OpenAI Chatbot, LLM model(Llama 2, 3.1) Transformers with pipeline workflows  **Computer Vision** — CNN, YOLO[SAM2, V7, V8, Yolo-NAS] models, Transformers[Vision, Swin, Detection], OpenCV library  **AWS** — EC2, S3 Bucket Lambda Function, Machine Learning, SageMaker  **Web Stack** — Flask, Heroku, Streamlit, AWS EC2 instance 

**IDE** — Spyder Notebook, Jupyter Notebook, VS-Code  **DevOps** — GIT, GitHUb  **RDBMS** — MySQL, MSSql  **Azure** — Container Registry, Azure Cognitive Services-LUIS, SDK app, ML Model prediction  **PAAS** — Docker

Machine Learning with Python - IBM

Data Science using Python & R programming

# Certificates

 Artificial Intelligence and Deep Learning  Python

**Chatbot,** *HR support chatbot to solve employee queries*

Role:- Team Leader/Tech Lead

# Projects

Technical Stack:- VS Code, Python Programming, RAG With Llama 3.1 8B, Ollama, and Langchain, Django Framework

Responsibilities :-

 To develop an innovative RAG chatbot for user provide insites about the HR queries  Deployment using Docker file and IIS server.

**Invoices Table Data Extraction,** *Tabular Data Extraction using Llama2 model*

Role:- Team Leader/Tech Lead

Technical Stack:- VS Code, Python Programming, RAG With Llama 2, Django Framework Responsibilities :-

 To develop an integrated innovative solution using Llama2 model to extract tabular data from PDF Invoices and save them in .csv format for finance department

 Deployment using flask and IIS server.

**Cellular Insights Research Study,** *Image segmentation using Yolov8x-seg\_custom model*

Role:- Project Developer

Technical Stack:- VS Code, Python Programming, YOLO v8 segmentation model, Git-Hub, Flask Framework, Docker, Azure Container Registry Service

Responsibilities :-

 To innovating cell Image analysis using Yolov8x-seg\_custom model and extract a comprehensive set of morphological features from cells, including size, shape, texture, and intensity for medical research we establish a streamlined pipeline encompassing data ingestion, validation, and model training.

 Deployment using Flask web app, Docker file and Azure Container Registry Service

**Video Analysis of Automobile Manufacturing Process,** *Live video analysis by YOLO V7 Tiny model*

Role:- Project Lead

Technical Stack:- VS Code, Python Programming, YOLO V7, Git-Hub, Flask Framework, AWS. Responsibilities :-

 To analyze live stream video of car manufacturing process using YOLO V7 Tiny model with PyTorch Implementation as it reduces the run run time using GPU which led to 25% increase in production efficiency

 Deployment of model on AWS cloud service for real time analysis

**ChatBot,** *Educational Chatbot*

Role :- Project Lead

Technical Stack :- VS Code/Jupiter notebook, OpenAI GPT-3, GitHub, Twilio & What'sapp Responsibilities:-

 Generate correlation between question and answers by appropriate data

 Develop GPT-3 model using OpenAI, messaging service provider using Twilio and deployment on What's app interface

**Text Summarization,** *Text summarization using transformers BertConfig model*

Role:- Project Lead

Technical Stack:- VS Code, Python Programming, YOLO V7, Git-Hub, Flask Framework, Dockers, AWS EC2 Instance.

Responsibilities :-

 Utilizing a BERT-based model from the Hugging Face Transformers library, we establish a streamlined pipeline encompassing data ingestion, validation, and model training.

 Subsequently, this trained model is containerized using Docker, integrated into a Flask-based web application, and deployed on Amazon EC2 for efficient and accessible text summarization services.

## Person Of Interest Detection

Role:- Project Developer

Technical Stack:- Google Colab, Python, OpenCV, dlib library, Deep Learning CNN Models, Flask Framework Responsibilities:-

 Video Analysis using libraries such as cv2 for video capture and manipulation, face\_recognition for face detection and recognition, and numpy for numerical computations.

 The face recognition is done using a convolutional neural network (CNN) based algorithm, which is optimized using a loss function to minimize the difference between the predicted and true face encodings.

## Realtime Facial Emotion Analyzer

Role:- Project Developer

Technical Stack:- Google Colab, OpenCV, dlib library, Deep Learning CNN Models, Flask Framework  The model used for emotion recognition employs a deep Convolutional Neural Network.

 On the test data, the model achieved an accuracy of 63%.

 The model is integrated with a realtime analyzer that analyzes the current emotion and assigns a suitable emoji for it.

 The system also provides wrappers for video and webcam processing, making it more convenient to use.

## Customer Sentiment Analysis

Role :- Project Developer

Technical Stack :- VS-code/Jupyter-Notebook, Word2Vec Flask Framework, AWS, TF-IDF Responsibilities:-

 This project involved a combination of data pre-processing, feature extraction, and machine learning model training and evaluation to perform sentiment analysis on the dataset

 Building a Deep learning LSTM model that could predict whether a review was positive or negative based on the text of the review.

 Deploying on the web based application with the help of Flask

**Credit Scoring Analysis,** *Check the default customer*

Role :- Project Lead

Technical Stack :- ML Classification Algorithms, VS-code/Jupyter-Notebook, SQL, Flask Framework, AWS Responsibilities:-

 To carry out pre-processing, cleaning of data and to verify integrity of data.

 To visualize and analyse data with data visualization with various python libraries to get insights of available data.

 To develop appropriate machine learning model using various algorithms so it can satisfy the requirements with better efficiency and deployed on Streamlit using Flask

## Employee Performance Estimation analysis

Role :- Project Lead

Technical Stack :- VS Code/Jupiter notebook, SQL, Flask Framework, Heroku, AWS Responsibilities:-

 Understanding business objective and extract data from SQL server

 Train the model using various machine learning algorithms such as Linear Regression, Random Forest, and Gradient Boosting, and choose the best-performing model based on the evaluation metrics with Flask and Heroku deployment

# Personal Information

***D.O.B:6th November 1992***

**Perm. Address:-,** *N-11, B-96/02, Netaji Subhachandra Bose Nagar, HUDCO, T. V. Centre, Aurangabad(MH).431003.*

**Current Add:-** 1501, Span Realtor, MHADA Bld. 150 ft. Road Bahyender(W), Thane, Mumbai. 401101.