

Neeraj Bhende
Education: M.Tech. IIT Kharagpur

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Senior Software Engineer

Natural language processing* Generative AI* Large Language Models

Profile Summary

- ❖ Strong software development skills with proficiency in Python, PyTorch, TensorFlow, Flask, TensorFlow Serving.
- ❖ Model optimization and fine tuning of AI models for better performance, latency, memory and throughput.
- ❖ Expertise in all important python libraries like NumPy, Pandas, SK-learn, Matplotlib, Seaborn.
- ❖ Experience Git, Docker, Kubernetes, MLFlow.

Responsibilities and Activities

- ❖ Ability to take ownership on design and developing modules.
- ❖ Understanding of data structures and algorithms
- ❖ Experience in working with a broad range of people, including Product Owners, Testers.
- ❖ Ability to switch role as individual contributor as well as a team player with cross culture and distributed teams
- ❖ Design and implement processes and strategies to enhance the end-user experience.

Programing Skills

- ❖ Python Programming.
- ❖ Bash scripting.
- ❖ Docker
- ❖ Kubernetes.
- ❖ Tensorflow.
- ❖ Pandas.
- ❖ Numpy.

Technical Skills

Business Domain	Computer Vision, Image Processing
Libraries	Pandas, Numpy, OpenCV
Frameworks	TensorFlow, Keras, Pytorch, SKLearn
Cloud Services	AWS, Azure, GCP.
IDEs/Editors	VSCode, Pycharm, Nano, VIM
Operating Systems	Windows, Linux

Project Details

Project Name	People counter. With reliable transfer of images
Project Description	Finding no of persons present in an area at a given time and Transferring images and analysis logs in a reliable manner so that no data loss occurs if internet connection is lost for small time duration.
Role	Team Leader
Tools used	Python, Numpy, ZMQ, TensorFlow, Amazon Web Services, Google Cloud Platform,
Activities	<ul style="list-style-type: none">❖ Python programming.❖ Bash Scripting.❖ Implementing ZMQ Pub-Sub and Router Dealer pattern.❖ Pruning the Yolo model for performance optimization.❖ Analyzing images using YOLO algorithm.❖ Deploying the model in Jetson Nano.❖ Ensuring Logs Reach to appropriate Raspberry Pi Only.❖ Uploading logs to AWS S3 storage.❖ Writing query in google bigquery to determine no of people present in a given Frame.❖ Finding the frame with maximum no of persons in a video.❖ Deleting images older than a specified time duration.❖ Republishing images if acknowledgement is not received within specified time duration.

Project Name	Resume Parsing
Project Description	Extracting information from resumes for shortlisting the candidates.
Role	Team Leader
Tools used	Python, Numpy, TensorFlow,
Activities	<ul style="list-style-type: none"> ❖ Python programming. ❖ Bash Scripting. ❖ Labeling the data. ❖ Applying Preprocessing and Augmentation Steps ❖ Page segmentation using fully convolution neural networks. ❖ Training the model. ❖ Testing the model. ❖ Deploying the model

Project Name	Chatbot Development
Project Description	Created a system that provides human like response to any query
Role	Developer
Tools used	TensorFlow, Fast API
Responsibilities	<ul style="list-style-type: none"> ❖ Select appropriate datasets and data representation methods ❖ Design and implement use case leveraging natural language processing and text analytics. ❖ Interpret and analyse live transcripts and other input data to figure out user intents behind questions asked. ❖ Train and retrain systems when necessary ❖ Run machine learning tests and experiments ❖ Perform statistical analysis and fine-tuning using test results ❖ Maintain and enhance chatbot platform to meet changing needs.

Work Experience

Organization	Start Date	End Date
Reliable Software Resources IT	Oct 2023	Till Present
Wavelabs Technologies	July 2022	Sept 2023
The Digital Group Infotech	May 2020	June 2022
Iwebxtreme	Apr 2018	May 2020
SGSITS Indore	July 2014	Apr 2018
Lingaya's University	Jan 2014	July 2014
SRIC IIT Khgaragpur	July 2009	Dec 2012

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge & belief.

Date: 07/11/2023

Place: Hyderabad, Telangana

Neeraj Bhende