# MOHAMMED YASEEN MANIYAR

S-4/14, JSW Vidyanagar Township, Bellary

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4 years of experience in ML, NLP and MLOps.

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## EDUCATION

**University of Sheffield (Sheffield, UK) – MSc Advanced Computer Science** **Sep 2021-Sep 2022**

**Related courses:** Machine Learning, Text Processing, Natural Language Processing, Parallel Computing with GPU/CUDA

**PES University (Bangalore, India) – BE Computer Science** **Aug 2015-Jun 2019**

**Related courses:** Algorithms, Machine Learning, Artificial Intelligence, Big Data Analytics

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## PROFESSIONAL EXPERIENCE

**Zevi (Bangalore, India) – NLP Engineer (Founding Team)** **Mar 2023-Present**

- Spearheaded the development and productionalization of a highly successful shopping assistant chatbot using Langchain and OpenAI technologies. The application achieved remarkable recognition, securing the #1 product of the day on Product Hunt and ranking #2 for the week.
- Optimized the chatbot's performance, leading to an impressive reduction in latency to a mere 3-5 seconds for the first token. Additionally, implemented cost-saving measures that resulted in an outstanding ~80% reduction in operational expenses.
- Pioneered the implementation of robust hallucination detection checks, ensuring the chatbot provided accurate responses. Continuous monitoring and dedicated customer support were added, elevating the overall user experience.
- Currently leading advancements in the organization's search and information retrieval pipeline, incorporating state-of-the-art technologies such as transformer based embedding models, knowledge graphs, and tree-based methods.
- Actively exploring the potential of open-source Large Language Model (LLM) technologies like Falcon and Llama2, identifying strategic opportunities to leverage them in enhancing AI capabilities and staying at the forefront of industry trends.

**LivePerson (Sheffield, UK) – AI/Speech Research Intern** **Dec 2021-Dec 2022**

- Worked on improving the speaker-diarization system (detecting "who speaks when" in an audio recording) by implementing a novel attention-based clustering module.
- Implemented and compared the performances of VQ-VAE, attention-based CNN models for clustering speech segments into various speakers for DIHARD challenge datasets.

**L&T Technology Services (Bangalore, India) – QA Automation Engineer** **Aug 2019-Sep 2021**

- Implemented a system to detect, localize and verify subtitles on screen during video playback using deep learning models.
- Implemented and compared deep learning models using CNNs, YOLO, OpenCV, tesseract OCR to detect and verify subtitles.
- Implemented python scripts to automate the function and verification of various features in Android and iOS applications using Appium and Robot frameworks.

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## ACADEMIC PROJECTS

**ML Research Project – Understanding idioms in Natural Language Processing** **May 2022-Sep 2022**

- Researched recent literature, proposed and implemented potential solutions to improve idiom understanding in NLP Transformer models.
- Leveraged task and language adapter modules to examine the transferability of idiom knowledge from English to Portuguese and vice-versa.
- Adapted a custom MirrorWiC fine-tuning procedure towards detecting and understanding idioms against Huggingface BERT, multilingual BERT baselines.

## TECHNICAL SKILLS

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|---|---|---|---|
| Programming Languages: | Python, C++, Java | Deployment: | Gradio, Streamlit, Flask, FastAPI |
| Machine Learning Packages: | HuggingFace, PyTorch, Scikit-Learn, TensorFlow, Spacy, Tensorboard | Cloud Platform: | Amazon Web Services |
| Big Data: | Spark, Hadoop, Apache Kafka | Containerisation: | Docker |
| Visualisation: | PowerBI, Tableau | Databases: | MySQL, MongoDB |

## CERTIFICATIONS

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|---|---|---|
| **Tensorflow Developer Specialization** | Deeplearning.ai | Link : HERE |
| **Deep Learning Specialization** | Deeplearning.ai | Link : HERE |