

Aravind Kumar R

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SUMMARY

Experienced machine learning engineer with 4 years in Computer Vision, NLP, and Generative AI. Distinguished by award-winning contributions, securing the prestigious Best Employee Award. Demonstrated expertise in leading teams and successfully managing the development of impactful AI-powered products end-to-end in startup environments. Keen to contribute expertise to a dynamic team, tackling real-world challenges with cutting-edge AI and ML solutions.

EXPERIENCE

Machine Learning Engineer

Oct 2021 - Aug 2023

CareerNinja | LearnTube, BeNinja Solutions Private limited

Mumbai, India

- Developed game-changing AI features for the learning platform including Instant Doubt solving, Question generation, and Summarization, **slashing content creation time from days to mere hours.**
- Harnessed transformer-based **Generative AI models** like BERT, T5, GPT, LLaMA, and PALM with **Prompt engineering** techniques like chain of thought, few-shot and zero-shot to improve the learning content.
- Engineered, deployed and maintained Neo4j knowledge graph system for compelling content recommendation for a **million learners in the platform.**
- Architected NLP systems like video understanding with transcripts, topic modeling, web crawling, and keyword detection, Voice Dubbing to curate captivating YouTube videos.

Applied AI - Principal Software Development Engineer

Sept 2020 - Oct 2021

Diatoz Solutions Private limited

Bengaluru, India

- Led a team of 4 people** in developing, deploying and maintaining the features like automated resume extraction, candidates and jobs recommendation systems for an AI-powered recruitment platform - E2Ehiring.
- Increased the inference speed by 8x** in the video analytics platform by introducing and deploying the computer vision models using NVidia Deepstream and model quantization techniques.
- Documented and educated the team in deploying deep learning models efficiently using FastAPI, Docker, and NVidia TensorRT, and Triton inference server.

Applied AI - Software Development Engineer

Aug 2019 - Sept 2020

Diatoz Solutions Private limited

Bengaluru, India

- Led a 3-person team** in creating and maintaining an AI-driven SaaS traffic analytics platform for video-based traffic monitoring and analysis – Ezevision.
- Managed and led a team in developing a multi-lingual customer service chatbot supporting four languages for a **major Indian infrastructure company.**
- Spearheaded various computer vision projects, including Apartment Parking Surveillance, Red Sandalwood detection from aerial-view drone images, and Human detection, tracking, and counting.

Machine Learning Intern

June 2019 - July 2019

Diatoz Solutions Private limited

Bengaluru, India

- Developed proof-of-concepts to build Chatbot using RASA framework and Google's DialogFlow.
- Researched and documented the image classification, object detection, and segmentation techniques.

EDUCATION

Sri Krishna College of Engineering and Technology (77th NIRF Engineering Rank 2023) <i>Bachelor of Engineering in Mechatronics Engineering - CGPA - 8.37</i>	July 2015 - April 2018 Coimbatore, India
Nachimuthu Polytechnic College <i>Diploma in Mechanical Engineering - Cumulative Percentage - 88.0%</i>	June 2012 - April 2015 Coimbatore, India

SKILLS

- Python, JavaScript, and C and Data Structures and Algorithms
- Machine learning and Deep learning - PyTorch, TensorFlow, Keras
- Natural Language Processing - Spacy, NLTK, Gensim, RASA, HuggingFace transformers
- Computer Vision - OpenCV, Yolo and Nvidia DeepStream
- Generative AI – ChatGPT, Prompt Engineering, LangChain, Llama Index, Vector databases
- Model deployments - Linux, Flask, FastAPI, Streamlit, Docker, Nvidia TensorRT, Nvidia Triton inference server
- Cloud - AWS (EC2, S3, Lambda, Sagemaker and Cloudwatch), GCP - Google Cloud Platform
- Knowledge Graph and graph databases - Neo4j
- Databases - MySQL, PostgreSQL, MongoDB, and Elastic Stack

ACHIEVEMENTS

Best Employee Award - 2022

CareerNinja | LearnTube, BeNinja Solutions Private limited, Mumbai, India

Best Paper Award – 2017

AURATER - Autonomous Unmanned Rover with Advanced Trash Eliminating Robot

IEEE sponsored ICRAET 2017 - International Conference on Recent Advances in Engineering and Technology

Achieving Student Award - 2017

Sri Krishna College of Engineering and Technology, Coimbatore, India

CERTIFICATIONS AND COURSEWORK

Generative AI with Large Language Models <i>DeepLearning.AI and AWS</i>	Nov 2023
Career Essentials in Generative AI by Microsoft and LinkedIn <i>Microsoft and LinkedIn</i>	July 2023
Introduction to Generative AI <i>Google Cloud Skills Boost</i>	July 2023
Neo4j Certified Professional <i>Neo4j Graph Academy</i>	Aug 2023