



Mitahee Divesh Kumar

DATA SCIENTIST, MACHINE LEARNING ENGINEER

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"I want to be the best version of mine."

Technical Skills & Expertise

- **Languages:**
C, Core Java, Advanced Python, HTML, CSS, JavaScript
- **Applied CS:**
Machine Learning, Deep Learning, Data Science, **TensorFlow, Keras, PyTorch, Rasa, Flask, MongoDB, Docker**
- **Core CS:**
Data Structures, Algorithms, Operating Systems, DBMS, Computer Architecture
- **Algorithms:**
YOLO, BERT, Langchain, LLM, FAST AI, OpenCV, Other Transfer Learning Models like **ResNet, T5, Transformers**.
- **Tools:**
Google Cloud Platform, Amazon Web Services, IBM Watson Studio, Notebooks (Jupyter, Kaggle, Google Collab etc.).

Research

- Intelligent Scrum Bot and Workplace Management
- Severe Disease Prediction Chatbot
- Real Estate Chatbot

Experience

Reliance JIO

Hyderabad, Telangana-India

Deputy Manager – AI

Aug 2022 - PRESENT

Working on Multiple projects, which is related to Natural language Processing and Computer vision.

- Cloud Workload prediction and Kubernetes Work load Prediction.
- Created a Chat-Bot using Large Language Model and Langchain.
- Worked on Text-to-Speech model

Legato Health Technologies (An Anthem Company)

Hyderabad, Telangana-India

Associate AI Engineer

Sep 2020 – Aug 2022

Working on Multiple projects, which is related to Natural language Processing and Computer vision.

- Transcript generation using natural language processing algorithms.
- Extract information from a slide which is sharing the meeting using Computer Vision.
- Apply different types of NLP and CV algorithms to generate Minutes of Meeting.
- Working on Rasa Chat-BOT to create a user-friendly IT related solution for legato.

Infinite Epochs Research Lab

Hyderabad, Telangana-India

Data scientist Intern, Researcher

Jan 2020 – Sep 2020

Working with enterprise, consumer internet companies in applying the science of Automation for their large scale of workloads.

Project:

HR Automation Project Using Deep Learning and NLP.

A product which is used to reduce the workload for H.R it generates a caption using RNN, LSTM and BERT. It generated data automatically with various resources and perform the task automatically like resume selection and technical interviews. Based a candidate profile it automatic generate a dashboard and forward to higher authorities.

NVidia Graphics India Pvt Ltd.

Hyderabad, Telangana-India

Data Analyst

Sep.2017-Dec. 2019

- Applying *Computer Vision for Object Detection* and Path Detection for Autonomous Vehicles.
- Worked on Different modules of Autonomous Vehicle such as Object detection(various object in road) and Path detection.
- Generate Data for AV models.
- Data mining and Feature Extraction.
- Developed and maintained Quality Assurance procedure documentation.
- Monitored number of datasets to provide constructive feedback.

Projects

Voice-Based Language Assistant Bot (JIO Platforms pvt Ltd):

Hyderabad, Telangana-India

- Create a voice-based assistant bot that can understand user inputs in various Indian languages and respond with relevant information in the same language. In that Jio Chat Bot using LLM (Large Language Model) and Langchain technology.
- Implemented the Deep Learning based Speech to Text model, that converts audio files into text.
- Implemented the Chatbot using Llama V2 and Bloom, that served as chatbot to understand and provide answers for a given input.
- Implemented the Deep Learning based Text-to-Speech "GLOW-TTS) model, that converts text into synthetic audio.

Template Analysis of the Health Care Documents (Legato Health Technologies): *Hyderabad,Tealngana-India*

- Implemented Template analysis of the document Using object detection models such as YOLO_V5, TFOD (Tensor Flow object detection) a part of large ML application pipeline in Cognitive platform .
- Conversion of all the health care documents (in .pdfs) to jpg images.
- Preparing Training Data for YOLO_V5 and TFOD by annotating the images using LabelImg (Image annotation tool).
- Implemented modules which can tackle the errors in preparing the training data.
- Implemented module to convert annotation from YOLO_v5 format to TFOD format.
- Trained YOLO_V5 and TFOD models by configuring the parameters of the models required for training on Jupyter lab of Sagemaker notebook.
- Necessary MAP (mean Average precision) values of the models were noted for improving the results in future.

Intelligent transcription generation tool(Legato Health Technologies):

Hyderabad, Telangana -India

- Implemented a Transcription generation which generates minutes of meetings from a Video Recording of meeting.
- The Tool consists of series of pipeline which involves Google Speaker diarization to diarize according to speakers, Nvidia Jasper Seq2Seq model for Speech to text conversion, Series of transformer summarization models to summarize the information.
- Implemented full pipeline of identifying the name of the speaker in a "webex" video recording through Face and Lip Detection using Syncnet which have MTCNN network in the backend for detecting face and facial key points for lip movement tracking.
- Implemented concept of Hough line transformation and contours on images to extract information from ppts,word,docx etc., if screen was shared in meeting recording .
- Implemented UI using react for the login page, upload page and Dashboard of the Transcription tool.

Intelligent AppBot Review (Legato Health Technologies):

Hyderabad, Telangana-India

- Implemented a intelligent AppBot project to review the comments and understand the context of comment and assign the bug and improvement ticket to IT team automatically.
- The tool consists of pipeline of sentimental analysis, which predict the sentiment of comment, based on context model detect the bugs and problems faced by customer. Create an Improvement ticket and assign to IT team.
- Implemented UI using react for the login page, upload page and Dashboard of the Transcription tool.

Certifications

- Professional Data Science Certification from Imarticus in Collaboration with Genpact and NSDC
- Professional Machine Learning Certification from Imarticus in Collaboration with IBM and NSDC
- Python Certification by Hacker Rank
- Statistics for Data Science Course by UDEMY
- Deep Learning: Advanced Natural Language processing and RNN Specialization by UDEMY
- Deep Learning: Advanced Computer Vision and Generative Adversarial networks Specialization by UDEMY
- C Language Certification by Laxmi Narayana Computer Education

Education

CMR Technical Campus, Hyderabad

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

- CGPA :61%

Telangana-India

June 2013 – May 2017

Sri Sai Junior College, Adoni, Kurnool dist.

Intermediate

- CGPA :70%

Andhra Pradesh-India

March 2011– March 2013

Sri Sarada Niketan Junior College, Adoni, Kurnool dist.

Secondary School of Education

- CGPA :75%

Andhra Pradesh-India

June 2006– May 2011

Achievements

- Work as a technical reviewer with Apress Publications.
- Awarded with anthem impact award twice as part of my efforts in my work in Legato Health technologies in 2020 and 2021.
- Got 2nd Rank in Hack-a-thon 2016, which was held in Institute.
- Honored by director of university for the top academic performance.

Position of Responsibility

- Placement Cell coordinator, senior instructor and coordinator of Akriti Club in the institute.
- Campus Ambassador at Coding Campion, Coding Blocks, GeeksForGeeks.
- Involved in Startups. Member of Software development, UI Development team at Control Structures Pvt Ltd.

Extracurricular Activities

- Member of Social Service Group.
- Reader and blogger.
- Chess Player, Cricket.