Thejesh Mallidi

East Lansing, Michigan | +1 517-730-4554 | mallidit@msu.edu | Linkedin | Github

OBJECTIVE

Seeking a dynamic summer internship opportunity in a fast-paced organization where I can apply my expertise in efficiently managing diverse company operations. Possessing a robust skill set in application design, development, and deployment.

EDUCATION

Michigan State University 08/2023 - Present
Masters in Data Science *CGPA: 4.0 / 4.0*

Madanapalle Institute of Technology and Science 07/2017 – 05/2021
BTech - Computer Science and Engineering *CGPA: 9.23 / 10*

EXPERIENCE

Graduate Research Assistant *09/2023 – Present*

- Currently working on advancing Plant Science with a NLP-Driven Knowledge Graph using Large Language Models (LLMs) under guidance of **Professor Shinhan-Shiu**.

Quantiphi Analytics | Machine Learning Engineer *06/2021 – 07/2023*

- Responsible for designing and implementing Automatic Information extraction systems using both combined custom Computer vision and NLP LLMs for NER and Relationship Extraction in the BFSI domain.
- Worked on Object detection, Classification and Segmentation use-cases in several PoC's.
- Develop predictive models and algorithmic solutions using various statistical and/or machine learning techniques like Linear and Logistic Regression, Decision Trees, Bagging, Random Forest, GBM etc.
- Developed and Implemented Algorithms in Machine learning and Statistical Modelling techniques to increase performance, quality, data management and accuracy. Built multiple Inference pipelines compatible on Nvidia Edge devices using Deepstream & TAO toolkit.
- Scaled Machine Learning Models in production using AWS Sagemaker, GCP K8, Flask, Rest API etc.

PROJECTS

Analysis and Quantification of Deflected Regions in Road Surfaces

- This Project aims to develop a comprehensive methodology for the identification and volumetric quantification of deflected or damaged regions in road surfaces, addressing a crucial need in road maintenance and infrastructure management. Dataset : Point Cloud data
- Technologies used: Python, Vedo, VTK, Deep Learning (PointNet++), Nvidia Rapids, Statistical Analysis.

Image Captioning using Attention models

- This aims to describe the activity in the given image. The Dataset used is a Flickr 8k dataset and some pre- trained models like Vgg16, Resnet to represent the images.
- Technologies used: NLP, Deep learning (CNN & LSTM) and Attention models.

SKILLS

- **Technical Expertise:** Data Structures & Algorithms, Data Science, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Predictive Modeling, Decision Analytics, Graph ML, Knowledge Graph, Doc AI, Software Design, Large Language Models (LMs).
- **Programming Languages & Frameworks**: Python, R, C, C++, SQL, TensorFlow, Keras, PyTorch, TensorRT
- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services (AWS)
- **Big data Technologies:** Hadoop, Spark, Apache, Kafka
- **AI Development on Nvidia Platforms:** Nvidia Deepstream & TLT (Transfer Learning Toolkit)
- **Interests**: Artificial Intelligence, Virtual Reality, Public Speaking, Technical Blogs, Chess

CERTIFICATIONS

- AWS Machine Learning Specialty Certification.
- Certified in Data Science Specialization by IBM.
- Secured certifications for Nvidia Real-time Video AI Applications and Building Application on Jetson Devices.