YAKKANTI DINESH KUMAR

DataScientist | AI/ML Engineer | NLP Engineer

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PROFILE

Experienced data scientist with over 3.5 years of real-world expertise in analysing data and solving complex problems. I have worked across diverse industries, including e-commerce and engineering services, and possess a strong skill set in developing data-driven solutions, building predictive models, and analysing image and text data for practical business solutions. In addition to my data science skills, I have hands-on experience with large language models like GPT-3, enabling me to excel in natural language processing tasks.

skills

Data Science - Python	Deep Learning
Natural Language Processing	Machine Learning
Transformers	Text Analytics
Large Language Models	Docker
Image Processing	Flask
Computer Vision	OCR Extraction
MLOps and CI/CD Pipelines	Google Cloud Platform

PROFESSIONAL EXPERIENCE

PYTHON AUTOMATION ENGINEER 06/2021 - Present | Mumbai
L&T Technology Services

PYTHON DEVELOPER - (ML & DL) 11/2019 - 11/2020 | Hyderabad
Screative Software Services

PROJECTS

INFOTAINMENT SYSTEM AUTOMATION, BMW

- An infotainment system is like a car's entertainment and information hub. We have various complex tasks aimed at automating how it works. To achieve this automation, we utilise machine learning, deep learning, and Python scripts.
- Applied OCR Extraction and image processing to extract useful text from different images and also identify the positions of specific icons and automate the process. This helps us understand how well the infotainment system performs.
- Applied thresholds and performed image comparison and used many OpenCV techniques.
- Automated the installation flow, data cleaning and data extraction with the latest software for every Product(MGU21, MGU22, IDC23).

Gender Voice Recognition

- Created a classification model to identify a person's gender based on their voice. This model assists the speech team when testing infotainment systems with commands like 'Open Music' or 'Play Music' using Siri or Google.
- It helps the speech team for testing commands for every new software update.
- Testing teams test with different modulation voices with both gender voices, after performing it converts into speech to text.

LIVE REPORTING DASHBOARD, Exploratory Data Analysis

- To create a dashboard on confluence for live reporting of test execution and defects count and it is the status of every product.

- Collected different products data from all the teams, which are automation execution and defect count.
- Automated the creation of tables and plots for each product within various teams, using pandas, numpy, matplotlib, and seaborn for handling different data.

RESUME PARSER, Named Entity Recognition

- Resume parser is to extract relevant information from a resume document, such as a candidate's personal details, work experience, education, skills, and other relevant sections.
- Extracting the entities from the documents using spacy, NLTK Resume Parser from the Resumes.
- Text Data preprocessing and sequence to sequence model building.
- Deployed spacy document parser model in flask web framework.
- Built a classification methodology to determine whether a document is resume or not.
- Utilised the Support Vector Machine (SVM) algorithm for document classification, achieving an impressive accuracy score of 95%.

FACIAL RECOGNITION

- To automate the attendance system with the help of facial recognition.
- Built the Facial recognition model with custom architecture which supports more than 500 classes for facial recognition. Built with custom architecture model and deployed model in Google Coral Development Board, Raspberry pi And Mobile Devices. Deployed Computer vision models in EdgeTpu devices (Google Coral and Nvidia Jetson Nano Devices).

PERSONAL AND PARTICIPATION WORK EXPERIENCE

- **CHATBOT,** Developed a chatbot with a small dataset using PyTorch to participate in an office hackathon.

- **MEDICAL REPORTS PARSING,** Participated in Tech Expression event organised by my office. I made two Flask tools for medical report processing. One helps make training annotations, and the other helps put a model into action. I also built a model to find and collect info like patient names, ages, diseases, medicines, and other important parts from medical reports.

- **LARGE LANGUAGE MODELS(LLMs),** I have personal work experience with large language models like OpenAI, GPT-3, and Hugging Face's models..

EDUCATION

BACHELORS OF TECHNOLOGY (B.Tech) in Computer Science 2019 | Mylavaram
Lakireddy Balireddy College of Engineering

DIPLOMA in ELECTRONICS and COMMUNICATION 2016 | Machilipatnam
Sri Varalakshmi Polytechnic College

DATA SCIENCE TOOL-KIT

Pytorch(Lower-level and higher-level)	Tensorflow
Keras	Scikit-learn
OpenAI	Langchain
HuggingFace	Spacy
NLTK	Pytesseract
Computer Vision(CV2)	Numpy
Pandas	Matplotlib
Seabron	Scipy

LANGUAGES

Telugu **English** **Hindi**