

Surya Teja Menta

Data Scientist / ML Engineer / AI Engineer

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Summary

I'm Surya Teja Menta, an experienced professional with 3 years in **Data Science & ML**. Industrial background in data analysis and ML as a Data Analyst. AI/ML project expertise on GitHub. Certified IBM Professional Data Scientist with a Computer Science & Engineering degree. Adept in scientific models, statistics, and passionate about AI/ML knowledge-sharing through blogs.

Work Experience

- Senior Data Scientist - Robert Bosch (Jan 2024 - present)

Worked on different levels of **AI systems**. Trained the **Custom YOLOv8 Model** on custom dataset for Customer Use Case and Deployed successfully. Working on **Signal processing** and applying the **ML** algos on sensor Vibration data. Building different levels of **RAG pipelines** for different kinds of data (pdfs, csv, excel, tabular and image). working on different levels of **Gen AI and fine-tuning the LLMs**.

- Subject Matter Expert (Data Analyst) - Tudip Technologies (Oct 2020 - Oct 2023)

During my tenure of 3 years as a Data Analyst at Tudip, I collaborated with Google on the Google LX project. My role encompassed crafting analytics **dashboards** and **reports** using **Google Datastudio** for a content management platform. I also enhanced project efficiency by implementing **NLP Transformer (BART)** for text generation tasks and deployed the **docker image in Google Cloud Run** and then **Google Sheet Integration** to make it available for everyone. The team's dedication earned us the **Best Team Award** for the **most client appreciations received**.

Projects

1. Github Automated Analysis (OpenAI, Langchain, LLM)

Automated Complexity Analysis: Engineered a Python tool using GPT and LangChain to pinpoint intricate GitHub repositories. **Memory Optimization:** Implemented efficient memory management for processing extensive files while adhering to token limits. **Enhanced Complexity Scoring:** Utilized prompt engineering to elevate accuracy in evaluating repository complexity, refining the precision of the tool.

2. Re-Enhance.AI (Opencv, ESRGAN, Pytorch)

The Re-Enhance.AI project is a set of tools and algorithms that can be used to improve the quality of your Image for Space & **Research Purposes**. Even though the model accepts only images with (256x256x3) dimensions, this framework manages the higher dimensions by **Split and Send Policy**.

3. AI - CAPS (Streamlit, Text-speech-Text)

This Project is to recognize the Voice (Speech - to - text) and then translate the voice to another 18 Languages using Streamlit. This app allows you to record your voice/choose an audio file, Visualize the embedding of the speaker, Synthesize speech based on the recorded voice and, Text Translation

4. QA_Summerization (Huggingface, OpenAI)

This is a QA and summarization Web App built on Streamlit that allows you to quickly and easily create a Paraphrasing and summarization of your QA data. The main features of the app are: Paraphrasing & Summarization

Professional skills

Knowledge: Data Science, Machine Learning, Deep, NLP & CV, LLMs, GPT

Languages: Python, SQL, HTML, CSS, Web development, SQL, NoSQL

Frameworks: Tensorflow, Pytorch, Keras, Langchain

Cloud: GCP Cloud Run, Amazon Sage Maker(AWS) basic

Libraries: Numpy, Pandas, Sklearn, Spacy, NLTK, Opencv, Matplotlib / Seaborn, scipy

Tools: Jupyter notebooks, docker, GitHub, Git, Google DataStudio

Others: Statistics & Probability, Calculus, Mathematics, Linear Algebra, Worked on Complex Datasets, Statistical Analysis, Data Mining, Model Building and Deploying, Hypothesis Testing, Data Analytics.

Education

Bachelor's Degree(CS) - PBR VITS, Kavali, AP (June 2016 - May 2020)

I have done my Bachelor's degree in Computer Science with **78.3%**. I have participated in paper presentations and won prizes too.

HSC - Narayana Junior College, Kavali, AP (June 2014 - May 2016)

I have completed my HSC education with a 92.5%

SSC - Kranthi EM School, Kavali, AP (June 2004 - May 2014)

I have done my schooling with 87%. I also participated in school dramas, sports, etc.

Certificates & Courses

- IBM Professional Data Scientist Certificate
- Advanced Deep Learning course in Ineuron.AI
- Python & Web Development

Soft Skills

Analytical Thinking: Demonstrated through experience in data analysis, statistical techniques, and training on complex datasets.

Problem Solving: Interpret data, Implementing algorithms, and finding solutions. used problem-solving skills to solve challenges.

Collaboration: Highlighted by working with Google on the Google LX Project, collaborating with clients, and creating analytics dashboards and reports to meet their requirements.

Communication: Evident through writing AI/ML blogs, presenting papers, and effectively communicating complex concepts to both technical and non-technical stakeholders.

Continuous Learning: Exhibited by pursuing advanced courses and certifications in data science, machine learning, and deep learning.

Adaptability: learning new technologies, and actively contributing to AI/ML communities. I'm tech savvy.

Time Management: Proven ability to handle multiple projects simultaneously while meeting deadlines