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

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)

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

5. Fmoke Detection (Opencv, Tensorflow, Keras)

The Fmoke Detection project is a Fire & Smoke Classification using Deep Neural Networks.The Model is speedy and easy to predict the images.

6. Heart Attack Prediction (Scikit-learn)

The Heart Attack Prediction Project is developed to predict the Heart attack by taking data as input from users. it will generate output as Positive Or Negative. The Model Accuracy is 92% which is the Best Fit.

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 a tech savvy.

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

Blogs & Post

- A Simple Language Detection Application
- Upsampling and Transposed Convolutions Layers
- Unsimply Model Decay
- In the Linear Regression
- In the Logistic Regression
- In the Decision Trees Part: 1
- In the Decision Trees Part: 2
- Actually, What is Ensembling Learning? -1