Sumantha.NTS

Data Scientist

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Location: Bengaluru, Karnataka, India

An exuberant and self-motivated data scientist having **3+ years** of experience, passionate about **cutting-edge** technologies and skilled in developing **scalable solutions** to a wide range of **data science problems**, specialized in **Machine Learning algorithm, Computer Vision, NLP** and **Generative AI**. Have a good understanding of the end-to-end life cycle of Data science projects.

PROFESSIONAL EXPERIENCE:

Data Scientist 3 | Aidetic; Bengaluru   *Sept 2024 - Present*

- Generated synthetic data using various strategies with large language models (LLMs) and fine-tuned a **BERT** model for classification tasks in the legal domain. Successfully addressed the challenge of creating domain-specific synthetic data and achieved a **90%** accuracy in classification, demonstrating strong alignment with legal requirements

Data Scientist 2 | Aidetic; Bengaluru   *Dec 2023 - Aug 2023*

- Developed and deployed a sophisticated conversational chatbot leveraging state-of-the-art **LLM** models to effectively address customized data inquiries, extracting data from charts and assist users with financial calculators. Utilized **Docker** for containerization and deployed the solution on an AWS **EC2** instance.
- Designed and implemented an **ETL** pipeline to extract, transform, and load financial report data into an SQL database. Utilized advanced **Text2SQL** methods for efficient data retrieval and querying.
- Researched and implemented a **computer vision** virtual try-on (VITON) model to visualize attire on individuals or models.
- Led a project on object detection using **Yolo-v8** to detect the defects in the vehicle underbody and achieved an overall mean average precision (mAP) of **92%**.

Data Scientist | Wowlabz; Bengaluru   *Aug 2021 - Nov 2023*

- Crafted and implemented several cutting-edge tools harnessing **LLM** models to streamline tasks such as automatic slides generation, filtering modules, and resume parsing. These tools have substantially slashed team workload, resulting in efficient time management and the creation of engaging and compelling content.
- Conducted extensive experimentation with generative image models, including fine-tuning with **Stable Diffusion** and Dreambooth, and implementing **ControlNet** for precise image generation. Explored advanced techniques such as inpainting and style transfer to push the boundaries of creative visual synthesis.

Data Science Intern | Innodatatics; Bengaluru   *Feb 2021 – Jul 2021*

- Worked on an inventory management project which aims to predict inventory on a week, month or yearly basis of a particular product. Executed this project using **XGBoost** algorithm which gave a

high r2 score and implemented the **RESTful** API using flask web framework and deployed it in Heroku platform.

Power System Engineer | PRDC; Bengaluru   *Aug 2018 – Jul 2021*

- Analyzed existing and proposed power system networks of industries. Executed the power system studies and prepared the report for the same.

SKILLS:

Programming Language:	Python, SQL
Database:	Postgres, MongoDB
Version control:	Git, DVC
Framework:	Flask, FastAPI, Gradio, Streamlit
Data science skills:	Machine learning and deep learning algorithms, NLP, MLops, object detection, web scrapping, generative AI.
Library:	Pandas, Numpy, Sci-kit learn, Langchain, OpenAI, Transformers, Diffusers, Langsmith
Visualization Tool:	Tableau
Deployment:	Docker
Cloud services:	AWS EC2, AWS SQS, AWS S3, Azure
Soft Skills:	Leadership, Quick learner

CERTIFICATIONS:

- **Data Science Using Machine Learning with Python & R** from IBM
- **Data Science Certification** from Excelr Solutions
- **Python for Data Science** from IIT Madras
- **Introduction to Machine Learning** from IIT Madras

EDUCATION:

Bachelor of Engineering - Electrical & Electronics | RNSIT, Bengaluru
Aug 2014 – Jul 2018 | *Percentage – 80.93*

AWARDS:

- Received ***gold medal*** for academic performance in bachelor of engineering.