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EXECUTIVE SUMMARY

Data science enthusiast with a strong foundation and passion for AI, equipped with practical experience as a data science consultant. Proven expertise in leveraging data-driven insights for impactful decision-making. Eager to apply skills and bring a solid background in data analysis and a passion for innovative solutions to contribute to the evolving field of AI.

EXPERIENCE

Feb 2023 - Present Healthark Insights (consultant)

Infinity Learn:

- Assessed various large language models (LLMs) and selected LLaMA-2 based on performance and suitability.
- Created a prompt template to guide the model in providing problem-solving hints and detailed answers.
- Applied zero-shot and few-shot learning methods to improve the quality of generated answers.
- Tested the model with questions from different subjects and varying difficulty levels to ensure effectiveness.

Long COVID Research Replication:

- Analyzed and understood the results of the long covid research .
- Initiated Replication process using an alternative data to prove it is generalised .
- Used SQL for comprehensive analysis of N3C dataset to Analyze and understand the demographic characteristics of cohort .
- extracted valuable insights and contributed to data-driven decision-making.

LLM Clinical-QA :

- Evaluated a set of models and selected Llama-2-Chat for QA fine-tuning.
- Developed a prompt template for fine-tuning and Synthesized a dataset by incorporating diverse medical data.
- Fine tuned the model for Medical QA using PEFT method and benchmarked to assess the model performance.
- Uploaded the fine-tuned model to Hugging Face, enhancing accessibility and promoting collaboration.

Worked on code LLaMa:

- successfully installed and executed different versions of code LLaMa locally.
- Analysed the code completion , Infilling , Instruction/chat abilities of each model by providing different types of prompts .
- Benchmarked the code LLaMa with HumanEval dataset to check the functional correctness of code it generated and analysed its performance.
- Developed a proof-of-concept to demonstrate its potential and feasibility.

EDUCATION

2019 – 2023	Chennai Institute of Technology <ul style="list-style-type: none">• Bachelor of Engineering - CSE (CGPA – 8.99)	Chennai, India
2018 - 2019	Vailankanni Matriculation Higher Secondary School <ul style="list-style-type: none">• HSC (89.66%)	Krishnagiri, India
2016 - 2017	Vailankanni Matriculation Higher Secondary School	Krishnagiri, India

- SSLC (96.2%)

TECHNICAL SKILL SET

- Python, R
- SQL, Statistics
- Machine learning & Deep Learning
- Large Language Model
- Natural Language Processing
- Computer Vision & AI
- HTML, CSS , JS
- Power BI
- Docker , Excel

ACADEMIC PROJECT

Project Title: "Sign Language Recognition"

- Synthesized a dataset by generating and collecting images of ASL.
- Analyzed and carried out data preprocessing.
- Trained a deep Learning model using different architectures and tested it .
- Used open CV to recognise the signs in real time and deployed it in a web interface.

Project Title: "CANCER DETECTOR"

- Machine Learning based mobile application that classifies patients with cancer
- Segregated them into different groups i.e., High Chance, Low Chance and Normal depending upon the value of each test report.
- Models used- Decision Tree, Random Forest and XG Boost

Project Title: "Digit Recognition"

- Digit recognition using neural networks.
- Performed Exploratory Data Analysis to investigate the dataset and discover the patterns.
- Using the vgg16 architecture to classify the images.

Project Title: "Mask Detection And Social Distancing"

- Trained Mobile-Net model for classifying the image with and without mask .
- Used Pre-Trained Model for object Detection such as Haar classifier.
- Used the Yolo algorithm for improvement.

EXTRA SKILLS

- Problem Solving.
- Teamwork.
- Decision Making.
- Interpersonal Skills

CERTIFICATIONS

- PGP in Data Analytics
- LLMs Mastery: Complete guide to Transformers and Generative AI
- Machine Learning & data analysis with Python
- AI for everyone
- SQL

EVENT PARTICIPATION

- Imarticus data science hackathon 2022
- Smart India Hackathon 2020 & 2022

VOLUNTEERING

- YOUNG MIND CODERS - Mentored around 100 high school students to learn basic programming in python.
- HACKERZ 2022 - Volunteered for organizing a national level symposium with technical and non- technical events

LANGUAGES KNOWN : Telugu (Native),Tamil (Fluent) ,English (Fluent) ,Kannada(Intermediate)