

Tejas JM

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Education

Matrusri Engineering College

B.E, Computer Science and Engineering, 7.68 CGPA

Nov. 2020 – June 2024

Narayana Junior College

PCM, 96% TSBIE Boards

June 2017 – Apr. 2019

Little Flower High School

SSC, 9.3 CGPA

June 2005 – Apr. 2017

Experience

Data Analyst

Panamax Infotech

Jan. 2023 – July 2023

- Developed a **robust API** to efficiently **fetch and decode data** from Ethereum nodes, streamlining data retrieval processes for **analysis**.
- Implemented advanced **anomaly detection mechanisms** within the API, ensuring **timely notifications** to the database admin in case of any **irregularities**.
- Leveraged API capabilities to **directly update** the company's database with **accurate and validated** blockchain data, contributing to **data integrity**.

Projects

Image Forensics *Python, TensorFlow*

- Created an advanced system using **CNNs** to **classify authentic images, AI-generated content, and edited visuals** with 96% accuracy.
- Improved system accuracy** by incorporating **synthetic images** through **DCGANs**, enhancing the **detection of AI-generated content**, and conducted comprehensive unit testing for **robust performance** across diverse scenarios.

FormFix *Python, OpenCV, Mediapipe*

- Developed real-time** exercise form **app** with OpenCV, Mediapipe, **CNNs** for accurate **landmark tracking**, instant **visual feedback**, and corrective prompts.
- Enhanced** exercise safety by tailoring **pose estimation** enabling **immediate form correction** for **injury prevention**.

UberFlow Analytics *Python, Mage, GCP, BigQuery, Looker*

- Engineered** an **end-to-end analytical dashboard** leveraging Mage, BigQuery, and Looker to **extract, transform, load** and **visualise** TLC operational data.
- Designed an **interactive dashboard** using looker featuring dynamic filters, charts and maps facilitating **data-driven decision-making** and **insights generation**.

Enigma Cerebrum *Python, TensorFlow*

- Developed a **robust brain tumour detection system** using **ensemble deep learning**, achieving 91% accuracy on a diverse dataset.
- Implemented advanced **multi-task classification** for early **brain tumour detection**, showcasing expertise in **image analysis** and **model integration**.

Resume Riddle *Python, spaCy, pyLDAvis*

- Engineered and deployed a robust **NLP-based resume analysis system** using **spaCy** and **NLTK**, enabling recruiters to efficiently categorize and assess candidate resumes.
- Developed and integrated a **dynamic skills matching** feature, offering a streamlined process for evaluating suitability through percentage-based skills matching against job requirements.

Geo Vision *Python, TensorFlow, GCP, Docker, Kubernetes*

- **Engineered** an **end-to-end analytical dashboard** leveraging Mage, BigQuery, and Looker to **extract, transform, load** and **visualise** TLC operational data.
- Designed an **interactive dashboard** using Looker featuring dynamic filters, charts and maps facilitating **data-driven decision-making** and **insights generation**.

Caption Kraft *Python, TensorFlow*

- Developed an advanced **image captioning system** using **CNNs** and **LSTMs**, generating contextually rich descriptions for images.
- Improved and extended the functionality of the image captioning model by incorporating advanced deep learning architectures, contributing to more **accurate** and **expressive** image **descriptions**.

Technical Skills and Competencies

- Languages: Python, C, C++, SQL, R, HTML, CSS
- Frameworks : TensorFlow, PyTorch, LangChain
- Developer Tools: Git, GitHub, VS Code, PyCharm, Jupyter Notebook
- Libraries: Pandas, NumPy, Matplotlib, scikit-learn, OpenCV, Gradio, huggingface_hub
- Skills : Foundation Language Model Development, NLP, LLM Finetuning, Prompt Engineering
- Competitive Programming: 5-Star Problem Solving Hackerrank, 2-Star Codechef

Competitions, Recognition and Volunteering

Competitions: 5+ hackathons (Offline + Online), 4th Place in the Regional Round of the GFG Solving For India

Recognition: Indian Army SSB Recommended (Medical Out), Microsoft Certified : Azure AI Fundamentals, Microsoft Certified : Azure Data Fundamentals, Meta Social Media Marketing Professional, Meta Certified Digital Marketing Associate, NPTEL Certified : Python For Data Science, NPTEL Certified : Data Science For Engineers, NPTEL Certified : Programming, Data Structures and Algorithms using Python, NPTEL Certified : Introduction To Machine Learning, Python, SQL, and C++: 5 Stars @ HackerRank

Volunteering: DeepLearning.AI Mentor, DeepLearning.AI Short Course Tester, GFG Student Chapter Founder and Lead, Matrusri Developer Space Club Lead, IEEE Chapter Secretary