

# Tejas JM

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## Education

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| <b>Matrusri Engineering College</b><br>B.E, Computer Science and Engineering, 7.68 CGPA | Nov. 2020 – June 2024 |
| <b>Narayana Junior College</b><br>PCM, 96% TSBIE Boards                                 | June 2017 – Apr. 2019 |
| <b>Little Flower High School</b><br>SSC, 9.3 CGPA                                       | June 2005 – Apr. 2017 |

## Experience

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| <b>Data Analyst</b><br>Panamax Infotech  | Jan. 2023 – July 2023 |
| <ul style="list-style-type: none"><li>Developed a <b>robust API</b> to efficiently <b>fetch and decode data</b> from Ethereum nodes, streamlining data retrieval processes for <b>analysis</b>.</li><li>Implemented advanced <b>anomaly detection mechanisms</b> within the API, ensuring <b>timely notifications</b> to the database admin in case of any <b>irregularities</b>.</li><li>Leveraged API capabilities to <b>directly update</b> the company's database with <b>accurate and validated</b> blockchain data, contributing to <b>data integrity</b>.</li></ul> |                       |

## 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

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- 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

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**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