

# DEEPAK TP

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## Career Objectives

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To pursue a challenging career and be part of a progressive organization that gives me scope to enhance my knowledge and utilize my skills towards the growth of the organization.

## Education

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### Manipal School of Information Science

Aug 2024 – Present

Master of Engineering in Artificial intelligence and Machine Learning (Avg CGPA – 8.5)

### G M Institute of Technology

Aug 2020 – Jun 2024

Bachelor of Engineering in Artificial intelligence and Machine Learning (Avg CGPA – 7.6)

## Academic projects

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### Transformer Model- Based Time Series Data Classification

JUL 2024 – Ongoing

- Conducted a time-series analysis of patient temperature data, encompassing 1440 timestamps over a 24-hour period, to identify patterns.
- Developed insights through EDA by implementing a range of **statistical analysis, creating informative visualizations**, and utilizing **FFTs** for frequency domain analysis.
- Developed a **Supervised Transformer model** for patient disease prediction and classification.

### Intelligent Legal Document Retrieval and Case Summarization System

Dec 2024 – Mar 2025

- Designed and implemented a **Retrieval-Augmented Generation (RAG)** system to generate accurate, context-aware responses from 1000+ PDF documents.
- Extracted and processed text, stored embeddings in a vector database for semantic search, and integrated retrieved content with **LLMs** for dynamic query completions.
- Gained hands-on experience in **NLP, Transformer models, and RAG pipelines** to enhance query responses in the legal domain.

## Certifications

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- "Supervised Machine Learning" And "Advanced Learning Algorithms".
- Quantization Fundamentals with Hugging Face. [Hugging face]
- IBM AI Engineering [ongoing].
- AI for Autonomous Vehicles and Robotics [ongoing].
- Prompt Engineering with Llama 2&3. [Coursera]
- Introduction To Industry 4.0 And Industry Internet of Things. IIT Kharagpur Elite Swayam (NPTEL)

## Skills

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**Languages & Frameworks** C, Python, TensorFlow, PyTorch, Power BI, RAG, NumPy, Pandas, Matplotlib, MCP

**Relevant Coursework** Vision, Machine Learning, Git, Linear Algebra, Probability, Statistics, Lang chain, Agentic AI

## Extra-curricular

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- Kabaddi Player.
- Organized the college fest "**Mallika**" during undergraduate studies.
- Passionate about exploring **business strategies** and unraveling **real-world case studies**.

## Personal Details

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- **Date of birth:** 23rd December 2002 **Languages known:** English, Kannada, Hindi, and Telugu
- **Hobbies:** Quizzing, Trekking, spending time with animals, Reading Books.