

DEEPAK TP

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Career Objectives

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

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

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

- “**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

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

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

Personal Details

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