SUDHA GOPALAKRISHNAN BRAIN CENTRE

INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Certificate of Internship Completion

This is to certify that **Mr. Rajnish Kumar** successfully completed his internship with the **Frontend Team** and **LLM Team** at the **Sudha Gopalakrishnan Brain Centre, IIT Madras**, from **12th January 2024 to 28th August 2024**.

As an **AI/ML Intern** with the LLM Team, Mr. Rajnish:

- Implemented **Nemo guardrails** to filter irrelevant LLM inputs/outputs.

- Built a **RAG-based chatbot** using a **Neo4j knowledge graph** to query SGBC brain data and experimented with **NL2SQL** for extended functionality.

- Processed and visualized brain region coordinates to create datasets for classifier training.

As a **Full Stack Developer** with the Frontend Team, he:

- Led development for the **Neuro Voyager Project** (announced at **NVIDIA GTC**).

- Utilized **Django** for web development, **Docker** for containerization, and **Jenkins** for CI/CD.

- Developed a **Chrome extension** in React, integrating a custom-trained LLM model to assist with API and code resources.

Mr. Rajnish Kumar demonstrated exceptional technical skills, dedication, and professionalism throughout his tenure. We wish him success in his future endeavors.

Sivathanu Neelakantan

Compute - Lead

SGBC,IIT Madras

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