MANOJ PREVEEN V

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SUMMARY

Machine Learning Engineer with over three years of experience specializing in Natural Language Processing (NLP). Have expertise in developing autonomous task planning agents, finetuning domain-specific LLMs, curating domain-specific datasets, and have experience working with both Small and Large Language Models (i.e., SLM, LLMs).

SKILLS

Languages	Python, C++, C, Golang
Frameworks	PyTorch, TensorFlow, Keras, Scikit-learn
Technologies	Git, Containerization(Docker, Kubernetes), Jenkins, REST APIs

EXPERIENCE

Senior Machine Learning Researcher Jan 2023 - Now
I.AM+ *Singapore*

- Developed autonomous task planning agents spanning several domains.
- Led the ML team, fine-tuned and deployed several competent LLMs for better task planning, instruction following and chatting.
- Developed a RAG pipeline, to make the model use knowledge from the web, index and search it in real-time to give relevant responses.

Machine Learning Engineer Oct 2020 - Dec 2022
I.AM+ *Singapore*

- Developed various in-house NLP models to solve various NLP tasks.
- NLP Tasks worked on - Joint Intent Classification and Entity Extraction spanning over 100s of domains, highly user preferred Text and News Summarization, Email Classification, Question Answering Task, ASR Post Processing.

Data Intelligence Intern May 2019 - Jul 2019
Samsung R&D Institute *Bangalore, India*

- Actively contributed to an Ongoing Project in the Data Intelligence Team (Make for India) Division.
- Worked on Personality Prediction of Samsung users based on their MyGalaxy Data.
- Mainly focused on deriving a Personality Vector for each user based on their MyGalaxy Music preferences.

EXPERTISE

Model Training & Data Engineering. Worked on training multiple SLMs(Small Language Models) and Finetuning LLMs(Large Language Models). Have created curated training data for both Instruction and Chat LLM Models trainings. Actively contribute to Open Source community by publishing [Finetuned ML Models and Datasets](https://huggingface.co) (huggingface).

Designing LLM Agent Architectures. Designed and extensively working on a AI Personal Assistant that can answer questions like Pi(inflection) and Perplexity and able to solve agentic tasks as well such as searching for flights, hotels, movies, etc .

EDUCATION

Master of Science · Mathematics and Computing, Indian Institute of Technology, Kharagpur 2018 - 2020
Relevant Coursework: Machine Learning, Deep Learning with Neural Networks, Data Analytics, AI.

Bachelor of Science · Mathematics and Computing, Indian Institute of Technology, Kharagpur 2015 - 2018
Relevant Coursework: Algorithms, Data Structures, Databases, Information Retrieval.