

SANSKAR UNKULE

PROMPT ENGINEER, ZENSAR TECHNOLOGIES

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Education

SIES Graduate School of Technology - Navi Mumbai, India

2020-2024

Bachelor of Engineering in Computer Engineering

Grade: 9.3

Professional Experience

Prompt Engineer, Zensar Technologies, Pune

Oct 2024 – Present

Client-NVIDIA

Remote

- Developed and refined prompt structures to improve AI model accuracy and reliability, focusing on advanced language model training and optimization under **NVIDIA's NeMo project**.
- Collaborated with cross-functional teams to customize **prompts** for varied applications, ensuring alignment with **NVIDIA's project objectives** and maintaining high standards of output quality.
- Generated **dense captions** for video data and contributed to **chatbot creation planning**, enhancing the project's **data annotation and quality processes**.

Prompt Engineer, Outlier.ai

Nov 2024 – Present

Freelance

Remote

- Collaborated as a freelance Prompt Engineer at Outlier on diverse projects, including **Cypher RLHF Safety, Multilingual Centralized Screening, Kepler RLHF, and Association Plowman..**
- Evaluated and provided detailed feedback on model-generated responses by employing **Reinforcement Learning with Human Feedback (RLHF)** techniques.
- Assessed prompts and model outputs to identify performance gaps and refine instruction sets, ensuring improved model accuracy and reliability.
- Contributed to **fine-tuning** the model through iterative feedback, enhancing its performance and alignment with project objectives.

Projects

Cypher RLHF Safety | LLM, RLHF

Nov 2024 - Present

- Applied **Reinforcement Learning with Human Feedback (RLHF)** to evaluate and provide feedback on user-entered prompts and model-generated responses.
- Identified improvement areas in prompt-response interactions to enhance model performance and alignment with desired outcomes.
- Contributed to the iterative refinement of the model by ensuring **high-quality feedback** and effective instruction adjustments.

Association Plowman | LLM, RLHF

Nov 2024 - Present

- Leveraged **Reinforcement Learning with Human Feedback (RLHF)** to evaluate problem statements and ensure prompts adhered to clarity and alignment with user instructions.
- Debugged and tested** model-generated code to verify functionality and compliance with user requirements.
- Delivered constructive feedback to refine prompts and model responses, enhancing overall performance and usability.

Dense Video Captioning Commercial VITA | LLM, Data Annotation

Oct 2024 - Present

- Annotated video datasets by crafting precise **event captions and global captions** to facilitate accurate model training for dense video captioning.
- Performed **Quality Assurance (QA)** to ensure high-quality annotations, validating data accuracy and consistency to optimize model performance.
- Contributed to enhancing the efficiency of AI models by delivering reliable and comprehensive video captioning datasets..

Information Retrieval Using Evolutionary Algorithm | NLP, IR, Web Scraping, ML

Jul 2023 - April 2024

- Developed a comprehensive system for efficient **information retrieval** using **evolutionary algorithms**.
- Implemented inverted indexing and an advanced document indexing method.
- Applied **modified genetic algorithm, cultural algorithm, ant colony optimization, particle swarm optimization, and bee swarm optimization to enhance search accuracy**.
- Demonstrated proficiency in information retrieval techniques and evolutionary computing.

Technical Skills

Programming: Python, C

Technical: Machine Learning, Data Science, Big Data Analytics, NLP, Database Management, Data Annotation, Large Language Model, Reinforcement Learning from Human Feedback (RLHF)

Machine Learning Frameworks: PyTorch, TensorFlow, Pandas, NumPy, SciPy, Scikit-learn, Superannotate, Hugging Face, Chat GPT, Anthropic