Dr. Yashvardhan Sharma Project/Thesis/Dissertation/SAT Problems offered for First Semester 2024-25

Question Answering System (QAS)

1. Developing a Visual Dialogue System (Visual Chatbot) by identifying the Intent in the question, Image, and dialogue history.

2. Developing a Visual Question Answering System (VQA) that can answer a natural language question by extracting the visual features from the given Image. Improving the accuracy of the Multi-lingual VQA system for the Indian languages.

3. Development of FAQ-based Question Answering System, which recommends a list of similar questions to the user.

Fake News Detection in Social Media (FND)

1. Cross-Lingual Fake News Detection using the Fact-checked given by the high-resource languages to be used in the Low-resource languages.

2. Fake News Detection by leveraging the latest Few shot and Zero shot learning methods for the Multilingual using the Low-resource languages such as Indian Languages: Hindi, Bengali etc.

Machine Translation

1. Using Large Language Models to improve Machine Translation for Indic languages

Human Action Recognition

- 1. Visual feature determination and system development for Alzheimer's.
- 2. Visual feature determination and system development for dementia.
- 3. Visual cues determination and system development Post Stroke.

Designing Optimal and Targeted Advertisement Campaign Strategy for Online E-Commerce Platforms using AI and Machine Learning

1. Analyzing and predicting factors affecting the overall profitability of an advertisement campaign.

2. Identifying and explaining the impact of changing input variables [Bid, Budget] on the output metrics [%impression share, ROAS - return on adspend] across such campaigns.

Conversational AI to understand customer behavior :

- Improving Conversational System of Unscripted, Unplanned Responses using Machine Learning to get Accurate Responses.
- Developing a Multi-Lingual Embodied Conversational Question-Answering agents.

• Implementing a Neural Conversational Model for Multilingual Question-Answering System.

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For Students

Please fill in your academic details by 10^{th} May 2024 for the SOP/ LOP /Thesis

Please fill your interest https://forms.gle/WN4GpfqWzuoiM3BMA