



**Innovative Teaching Practice: PPT / Video Link**

Faculty Name	K. Venkateswara Rao
Course Name	Deep Learning Techniques
Academic Year	2023-24
Class	IV/I SEM
Topic	Keras

**Objective of the Activity:**

The integration of PPT and video-based resources significantly enriched the learning experience. Simplify complex concepts using visually appealing and structured PowerPoint presentations. To enhance learner engagement by integrating multimedia elements like images, diagrams, and animations. To support diverse learning styles (visual, auditory, self-paced) through the combination of static slides and dynamic video content.

**Pre-Class Preparation:**

Students were able to visualize and understand the architecture and implementation of deep learning models using Keras, improving both theoretical knowledge and hands-on skills.

- **PowerPoint Presentations:** Delivered structured theoretical content with diagrams, flowcharts, and step-by-step model explanations.
- **Video Links:** Curated and shared high-quality tutorial videos to reinforce concepts like neural networks, CNNs, RNNs, and model training procedures.

**In-Class Activity:**

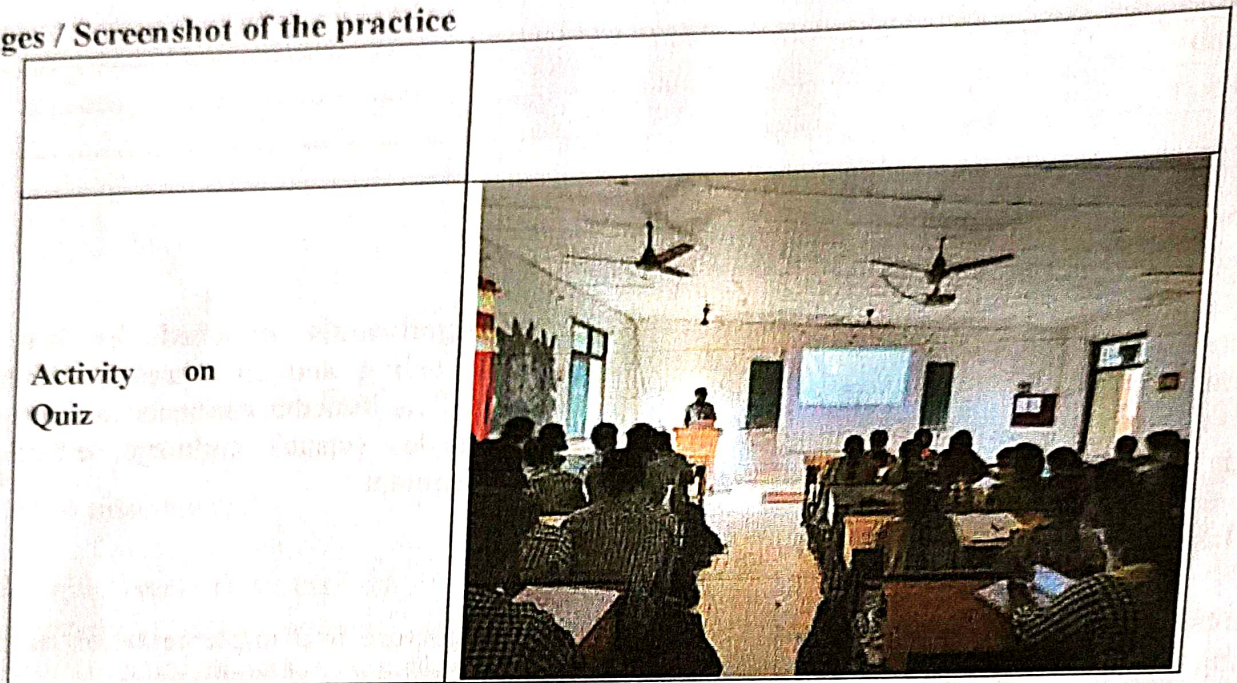
- **Use of Keras Library:** Demonstrated real-world applications and model implementation using Keras, a powerful and user-friendly deep learning API in Python.
- **To enhance conceptual understanding** of deep learning architectures using visual aids and multimedia content.
- **To introduce Keras as a practical tool** for building and experimenting with neural networks.
- **To simplify complex topics** such as CNNs, RNNs, and backpropagation using structured presentations and animations.
- **To improve student retention and performance** in assessments and project work through continuous exposure to both theoretical and applied aspects.
- **To develop industry-relevant skills** by familiarizing students with frameworks commonly used in AI/ML applications.
- **To encourage independent exploration and experimentation** with deep learning models outside the traditional curriculum.



### Time Allotted for Activity:

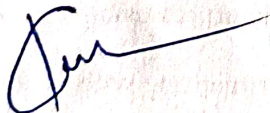
- Pre-class preparation: 50 Minutes
- In-Class Activity: 30 Minutes

### Images / Screenshot of the practice



### Benefits of practice:

- Increased participation and curiosity towards deep learning applications.
- Improved comprehension of abstract concepts through visualization.
- Students gained practical exposure to model building and evaluation using Keras.
- Enhanced retention and performance in assessments related to neural networks and deep learning.

  
Signature of Faculty Member

  
HOD

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