



## NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2023-2024

<b>BATCH NUMBER</b>	AB7
<b>TEAM MEMBERS</b>	SK. Hidaitulla (20471A0554) Ch. Chiranjeevi (20471A0509) G. Phanindra (20471A0516)
<b>GUIDE</b>	Shaik Rafi, M.Tech., (Ph.D)
<b>TITLE</b>	Semantic aware Abstractive Multimodal Summarization with Multimodal Output
<b>DOMAIN/TECHNOLOGY</b>	DEEP LEARNING
<b>BASE PAPER LINK</b>	<a href="https://ieeexplore.ieee.org/document/10458505">https://ieeexplore.ieee.org/document/10458505</a>
<b>DATASET LINK</b>	<a href="http://www.nlpr.ia.ac.cn/cip/dataset.htm">http://www.nlpr.ia.ac.cn/cip/dataset.htm</a>
<b>SOFTWARE REQUIREMENTS</b>	Browser: Any latest browser like Chrome Operating System: Windows 7 Server or later Python (COLAB)
<b>HARDWARE REQUIREMENTS</b>	Processor: Intel® Dual Core 2.0GHz minimum Hard Disk: 1TB minimum RAM: 8GB or more

## **ABSTRACT**

Image forgery is the tampering of digital photos. Because of ever-evolving technology, creating fake images is no longer difficult. In order to detect image forgeries, this paper proposes a model that employs Error Level Analysis (ELA) with Convolutional Neural Networks (CNN). ELA is used as a preprocessing step to highlight regions of an image that may have been tampered with. CNN is then trained on this enhanced data to classify images based on their authenticity and detect digital modifications. This initiative's main goals include image classification, attribute extraction, image authenticity verification, and digital image modification detection. Our suggested solution makes use of CNNs' deep learning capabilities and the refinement found by ELA.