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AI EML has been around since a long time, but now we have enough computational power to develop strong Neural Kletwork'. with help of Strong hardware & software.

AI EML has great advantages & used to craft. Contomate, execute some serious crimes that can For instance, hackens can develop an ANNI the scans new version of popular apps for unknown vulnerablities. if its done manually it will be deadly for people. take a long time.

Et a new field to dive in for forensie investigators & scope of research is really big.

Forensic Acquistion And Analysis

- -> challenges for DF
 - · Large volume of data
 - · Complex Processing
 - · Legitimacy issue.
 · Privacy violation
 · New "anti-formsic" trends.

The Below specific Az methods impact Of fields.

- : computer programs intelligently performs tasks Oknowledge Representation requirer so that it
- (2) Pattern Recognition: identify certain type of clusters of data in investigation can help to determine picture contents, spams, e-mails eq recognise folder in hard drives that contain questionable files.

Some AI techniques that help in DF.

- O Live forensies: These identify, limit & eliminate threat on spot & enable one to plan on tackling the threat. While at this it important to book through criminal record important to book through criminal record to determine who might be responsible.
- Data Recovery: Restoration of data & using At for Scanning that was destroyed or deleted.
- Dessioned Recovery: This comes handy when investigators use AI, Mc to bruteforce intelligently the passwords protected files & creek password to enable accum to files which can be evidence
- A known File Filtering: AI & MI can be employed for intelligently training the ANN models on malicious known snippets. Then getting the model on field to detect such snippets without executing the malicious code.
- Timeline Analysis: This tells investigators the order of events that led to event under investigation. Using AI this process can be more efficient than before Eq less time consuming.

Conclusion:

However, a lot of susearch work still rude to be done in this field. Proper & deeper analysis of volatile information would be beneficial as well as more in-depth analysis of Neural Networks might help us to get more familiar with machine learning programs in the scope of digital forensies.