

# RESEARCH PROPOSAL ON DIGITAL INVESTIGATION

In today's digital world, cybercrimes are happening more often and getting more sophisticated. Hackers aren't just stealing data—they're using advanced tools to hide their tracks, making it really hard for investigators to figure out what happened and who's behind the attack. Right now, most digital investigations rely on people manually digging through tons of data from computers, networks, and systems. It's a slow process, and with the amount of data growing every day, it's easy to miss something important. That's where AI comes in. AI can look at huge amounts of digital data much faster than humans, pick out useful clues, and even recognize patterns that point to the attacker. This kind of smart help could really change the way digital investigations are done. My research focuses on building an AI-based system that can help with these investigations. It will automatically collect and analyze digital evidence, and even assist in identifying where the attack came from. The goal is to make investigations quicker, more accurate, and better suited for the complex cyber threats we're facing today.