



Figure 1 illustrates the stages of the network construction, propagation of the vulnerability, and deployment of a fix. **Figure 1A** is the dashboard for the AI model that depicts the fully constructed network, with the red node representing the initial point of interest or origin of the vulnerability. **Figure 1B** shows the propagation and spread of the vulnerability throughout the network, with compromised nodes highlighted in red. **Figure 1C** visualizes the deployment of the remediation or patch, where recovered nodes are marked in green. **Figure 1D** presents a graph illustrating the duration required for the update fix to successfully restore all affected nodes in the network. Throughout all stages, blue nodes represent unaffected nodes.