

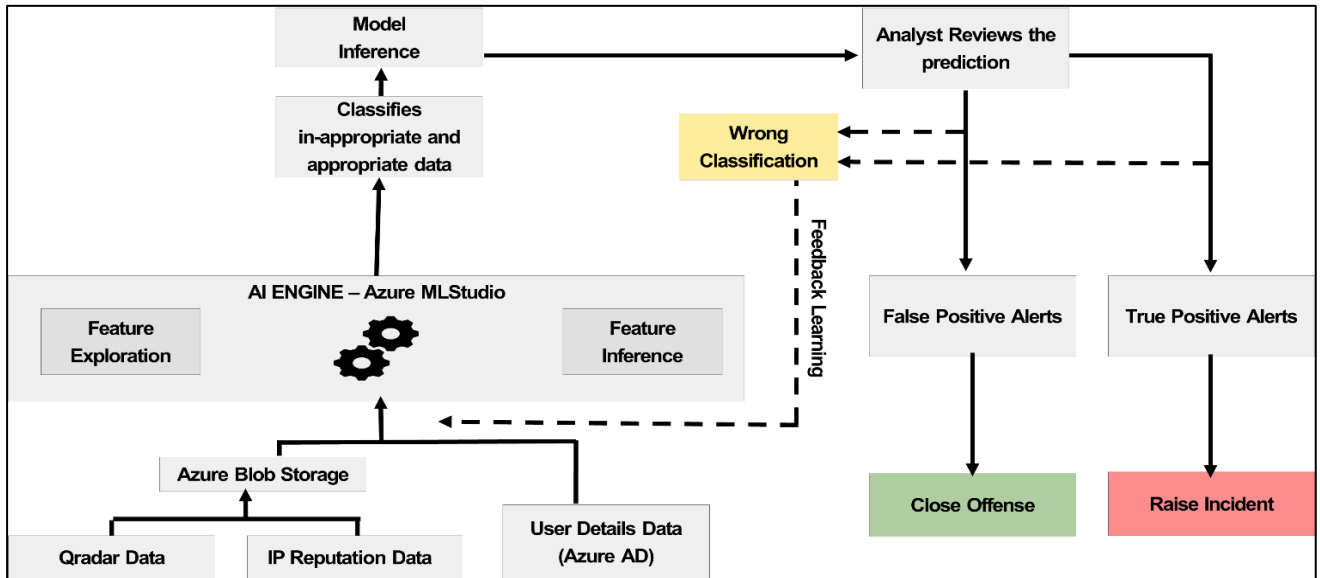
Reimaging Cyber Defense Process

Empower analysts for faster
investigation of security incident



Solution Architecture

Identify the pain point in the existing system and leveraging self-learning AI to spot novel attacks and prevent missing threat alert



The data coming from end point devices like Server, Desktops, laptops, switches, routers etc. typically pass through the security tools in an organization. These security tools are McAfee, Zscaler, CrowdStrike, CyberArc and so on. These data then pass through an event processing engine/ SIEM tools like IBM QRadar where predefined or custom rules are applied to remove any security threat. But many a times due to insufficient & inconsistent data false alerts are generated in the system. AI models help to classify these false positives & true positives and the model is re-trained for new issues with a continuous feedback learning from the analyst reviews. AI solution to identify the root cause for false positive alerts and provides AI guided insights to cyber security analysts to reduce time & effort.

Microsoft Azure components used



Azure Blob storage – for storing the data from SIEM tools (QRadar) and IP reputation data



Azure Active Directory – user validation



Azure ML Studio – ML pipelines for build, deploy & monitor the AI models (the complete MLOps to automate & accelerate the machine learning lifecycle).

- ML Flow – for model tracking, registering & serving
- Github – artefact repository
- Azure AutoML for automating ML model development
- Azure docker Container – for model packaging
- Azure KubernetesService – for application deployment & management across clusters



Azure Compute – container/cluster instance - For model training, Azure inference for real time inference

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