

Bhavya Tiwary

EXPERIENCE

Infosys Ltd. [Information Security Group (ISG) - Security Architecture]
Senior Information Security Engineer

2021 - Present

- Developed the **AI Model security and governance framework** for firm wide usage. For different stages of the model lifecycle defined the security recommendations and guidelines like data encryption, access management, vulnerability etc. that would be followed by developers.
- Evaluated up to **40+ third party suppliers** to determine their security posture and compliance with **ISO 27001, NIST and SOC standards** as part of the vendor security assessments. Reviewed products and vendors in multiple domains like BAS, Chaos Engineering, Cloud, DevSecOps, Financial Reporting, HR Onboarding etc.
- Onboarded **Palo Alto's Prisma CNAPP tool** for company's cloud security governance initiative. As part of onboarding, established **cloud baseline controls for AWS, Azure and GCP** cloud accounts to ensure security policies compliance.
- Reviewed and updated the **business continuity and disaster recovery plan** for business-critical services like AD and SIEM including data protection and security solutions for backup storage.
- Conducted risk assessments and identified potential security risks within **100+ internally developed applications** including **50+ AI based use cases**. Collaborated with IT teams to design and implement secure cloud architecture to ensure that security controls are integrated into the company's technology solutions from the initial design stage.
- Enforced security policies for **400+ special case email IDs** to reduce risk by 90%. Also, standardized and enhanced processes for IAM use cases related to shared access mailboxes and IDs.
- Essayed a key role in improving Standard Operating Procedures and policies for the smooth functioning of processes and **standardizing execution** of assigned tasks.
- Coached multiple colleagues on technical risk assessments, architecture reviews and vendor evaluations.

EDUCATION

MIT World Peace University | B Tech - Computer Science and Engineering

GPA 7.2/10

CERTIFICATIONS

- CompTIA Security+ ce (expiring 2026) [Link](#)
- Microsoft Certified: Azure Fundamentals (AZ 900) [Link](#)

PROJECTS

- Real time Helmet Detection of Motorcyclists using YOLO [Link](#)

The objective was to design a system for **real-time detection of motorcyclists without helmets using the object detection-algorithm YOLO v4** (You Only Look Once) to help solve the issue. Before training the model, the **training datasets was manually annotated with the BB information** for Hemet and No Helmet using Labelling software since YOLO needs a ground truth. The model was trained for 6,000 iterations with the input image dimensions of 416x416 pixels. The **overall mean precision (mAP)** for two classes was **92.94%** with the **average training loss of 0.0829**.

SKILLS

-Development Languages: Python, C++/C, SQL, Bash

-Other Technologies: AWS, Azure, GCP Terraform, Kubernetes, Docker, Prisma CNAPP, Qualys CSPM, Git, GitHub Action, Power BI, Tableau, R

-Security Technologies and Tools: Technical risk assessments, Architecture reviews, Vendor evaluations, Risk management, IAM, AI/ML Lifecycle Security- Responsible AI, BC/DR, SOC 2 Type I/II/III, NIST AI RMF 1.0, NIST 800-39, ISO 27001, BMS/IoT Security, Web Security, Cloud security