

**BATCH NO: 2**

**PROJECT TITLE: BLOCK CHAIN DRIVEN AUGMENTATION FOR SUPPLY CHAIN TRANSPARENCY THROUGH SMART CONTRACTS AND IOT INTEGRATION**

**ABSTRACT:**

Supply chains are evolving into intricate networks characterized by increasing technological complexity and a growing number of participants. However, a lack of mutual trust within these networks exacerbates challenges, especially in adhering to strict shipping conditions and quality standards. Moreover, there's a risk of participants attempting to cut costs or conceal errors, further complicating matters. These delve into four scenarios, meticulously analyzing the journey towards implementing end-to-end secured sensing in IoT-based supply chains. We highlight the relevant challenges and pitfalls, offering insights often overlooked in existing literature. By addressing these complexities head-on, we aim to pave the way for more resilient and trustworthy supply chain ecosystems. Our research underscores the critical importance of fostering trust and transparency among all stakeholders, leveraging innovative technological solutions to mitigate risks and optimize operations in today's dynamic business landscape.

**Keywords:** End-to-end secured sensing, IoT-based supply chains, Mistrust, Participants, Pitfalls, Quality, Scenarios, Shipping conditions, Supply chains, Technological, Trust.