CS-GY 6813 Problem Domain

Jennifer McIntosh
jgm9633@nyu.edu

II. Problem Domain

I hope to research within the domain of DLTs (Distributed Ledger Technologies), specifically blockchain, and the problem(s) that arise when this technology is used for identity verification and security. I am also interested in how Non-Fungible Tokens (NFTs) have been leveraged to prevent forgeries in both the high arts and pharmaceutical industries, and what the potential weaknesses may arise from relying on blockchain alone to verify authenticity (of both creations and individuals). Much of the existing literature focuses on the challenges related to transitioning existing industries and processes to blockchain, and the pros/cons of established industries adopting blockchain technologies. Additionally, there is much excitement around the potential for blockchain technologies to protect and reward creatives and other artists who have suffered from the ease with which most digital art can be replicated. Identity verification becomes of increasing concern as AI technologies improve as well, and so more robust identity verification measures (such as blockchain) are of increasing concern.

II. Academic References

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