**StudyMonk Assignment**

Submitted by: Tanish Khandelwal

GIthub: <https://github.com/tknishh>

LinkedIn: <https://www.linkedin.com/in/tknishh/>

**PROJECT TITLE #1:** Legal Document Analysis using Blockchain

**A SHORT DESCRIPTION OF THE PROJECT:** Automating legal document analysis using ML, blockchain, NLP. Extract key info, classify documents, store on blockchain, automate legal processes.

**INPUT OF THE PROJECT:** Legal documents, contracts, or agreements in various formats.

**OUTPUT OF THE PROJECT:** Extracted information from legal documents, classified document types, identified clauses, and blockchain-based storage of data.

**USE CASE OF THE PROJECT:** Benefits legal professionals, streamlines analysis, enhances accuracy, secures data, automates tasks, reduces costs in dealing with legal documents.

**PROJECT TITLE #2:** Intelligent Risk Assessment for Cross-Border Payments

**A SHORT DESCRIPTION OF THE PROJECT:** Developing an intelligent risk assessment system for cross-border payments using machine learning to analyse transaction details, user profiles, and historical patterns in real-time.

**INPUT OF THE PROJECT:** Cross-border payment transaction data, user profiles, historical patterns, and regulatory requirements.

**OUTPUT OF THE PROJECT:** Risk assessment score or classification for each cross-border payment transaction.

**USE CASE OF THE PROJECT:** Intelligent risk assessment for cross-border transactions automates evaluation, detects fraud, and ensures compliance for financial institutions.

**PROJECT TITLE #3:** Deep Learning for Rocket Propulsion Optimization

**A SHORT DESCRIPTION OF THE PROJECT:** Deep learning optimizes reusable space vehicle propulsion by analysing historical data to generate efficient propulsion strategies.

**INPUT OF THE PROJECT:** Historical data on rocket performance, flight characteristics, and propulsion parameters.

**OUTPUT OF THE PROJECT:** Optimized propulsion strategies for reusable space vehicles.

**USE CASE OF THE PROJECT:** Improve rocket propulsion for efficient space missions, reducing fuel consumption and increasing payload capacity.

**PROJECT TITLE #4:** Cybersecurity Threat Analysis using Deep Learning

**A SHORT DESCRIPTION OF THE PROJECT:** Deep learning-based system detects cyber threats in real-time, analyses network traffic, logs, and event data, and generates alerts for response.

**INPUT OF THE PROJECT:** Network traffic data, system logs, and security event data.

**OUTPUT OF THE PROJECT:** Detection of cybersecurity threats, generation of alerts, and response actions.

**USE CASE OF THE PROJECT:** Enhance cybersecurity in organizations, government agencies, and critical infrastructure with effective threat identification and response.