



Decentralized Insurance Management with patient, auditor, hospital, patient. Insurance uploads insurance police. Patient health report etc (refer shared ML space) are used to train ML model, which compares policy and report and decides how much claim is viable. If it decides on a not full claim/that it is fraud the report is flagged and reviewed by auditor. if not flagged the payment is sent to hospital. Everything uses blockchain

Here is the tailored Assumptions and Benefits report for the hackathon project "Decentralized Insurance Management":

Assumptions and Benefits Report for Decentralized Insurance Management Hackathon Project

Project Assumptions

- **Stakeholder Participation:** Patients, auditors, hospitals, and insurers will actively engage with the platform as defined.
- **Data Accessibility:** Insurance policies, patient health reports, and other relevant data required for ML training and claim processing will be available, accurate, and timely.
- **Blockchain Infrastructure:** The blockchain platform used will provide reliable, secure, and scalable support for recording transactions and smart contracts.
- **ML Model Performance:** The machine learning model can be effectively trained on available data sets to accurately assess claim viability and detect potential fraud.
- **Flagging and Review Protocol:** Auditors will have the necessary access and tools to review flagged claims comprehensively and timely.
- **Regulatory Compliance:** The solution will adhere to applicable healthcare, insurance, and data privacy regulations during data handling and processing.
- **System Integration:** Integration between insurance uploads, health reports, ML model, blockchain transactions, and payment gateways is feasible and functional.

- **User Adoption:** End users (patients, hospitals, insurers) will adopt the platform with minimal resistance due to ease of use, transparency, and incentives.
- **Budget and Time Constraints:** Resources allocated will suffice to develop, test, and deploy functional prototypes within hackathon timelines.

Expected Benefits

- **Automation and Speed:** Automated claim assessment using ML combined with blockchain reduces manual processing time significantly.
- **Fraud Detection:** Enhanced fraud detection through machine learning improves cost savings and claim accuracy.
- **Transparency:** Blockchain ensures immutable records and audit trails for all transactions, boosting trust among patients, hospitals, insurers, and auditors.
- **Cost Efficiency:** Reduction in paperwork, manual errors, and fraudulent claims leads to operational cost savings.
- **Fair Claim Processing:** The ML model ensures claim decisions based on data, reducing bias and disputes.
- **Improved Collaboration:** All stakeholders interact on a single decentralized platform, facilitating smoother communication and workflow.
- **Auditability:** Real-time flagging and auditor review improve compliance and oversight.
- **Patient Empowerment:** Patients benefit from faster claims settlement and transparent access to their claim status.
- **Scalability:** The modular design allows future enhancements on data sets, ML model sophistication, and blockchain features.

If desired, this can be further detailed with specific technical or operational metrics used in the project. Would that be helpful?