**Healthcare Insurance Fraud Detection using Blockchain**

**Project Abstract**

**by**

**CMPE 295A**

**Krishna Sai Siva Bojja (krishnasaisiva.bojja@sjsu.edu)**

**Manjunatha Koni Gururaja (manjunatha.koniguraja@sjsu.edu)**

**Vamshi Reddy Verama Reddy (vamsireddy.veramareddy@sjsu.edu)**

**Yashaswi Doddaveerappa (yashaswi.doddaveerappa@sjsu.edu)**

**Project Advisor**

**Professor Gokay Saldamli**

**Feb 2019**

**ABSTRACT**

**Healthcare Insurance Fraud Detection using Blockchain**

By

Krishna Sai Siva Bojja, Manjunatha Koni Gururaja, Vamshi Reddy Verama Reddy, Yashaswi Doddaveerappa

Health care industry is one of the important factors in the present society, expanding benefits to individuals through health Insurance. Health Insurance will lessen losses and provides financial and economic stability for an individual. In the United States, the share of people not having health insurance has dropped drastically from 2010.

Often times ambiguous or false information is provided to health insurance companies in order to make them pay unsanctioned aids to the policyholders.  The individual policyholder may also claim benefits from multiple insurance providers. There is a financial loss of billions of dollars each year as estimated by the National Health Care Anti-Fraud Association (NHCAA). In order to prevent health insurance fraud, it is necessary to build a system to securely manage and monitor insurance activities.

In this project, we are removing misleading information provided by following a set of rules called **HIPAA Privacy rules** defined by US Department of Health and Human services to securely maintain health-related information of each individual in the country. Further, insurance fraud can be prevented by leveraging blockchain technology to permanently log all transactions of policyholders. Blockchain assures that each block of data is visible to all parties involved in the chain by removing the need of a third party. Companies grouping up together to share data in Blockchain would result in less manipulation in policies. We integrate and link information about the claimer from various health insurance companies using Blockchain technology and is used as a reference to detect fraud. The approach we propose can mitigate health insurance fraud by offering transparency not present in the current paradigm of the health insurance world.