

# Advanced Survey of Blockchain for the Internet of Things Smart Home

**Pratheeksha Shetty, Prof. Jayanth Kumar Rathod, Sanika Gowda, Drushya Hegde, Niriksha Rai**

Department of Computer Science and Design

Alva's Institute of Engineering and Technology, Mijar, Moodabidiri, India

Affiliated to Visvesvaraya Technological University, Belgaum, Approved by AICTE

pratheekshashetty830@gmail.com, sanikagowdaaaa19@gmail.com

drushyahegde99@gmail.com, nirirai3344@gmail.com

**Abstract:** *"The Internet of Things (IoT) has many uses, like making homes smarter. But a big problem with IoT is that it relies too much on a central server, which can be risky. Blockchain, a new kind of system where everyone shares control, can fix this issue. Smart homes face lots of security problems, like hackers and privacy concerns. Blockchain is helpful here too, making sure data and transactions are safe. This paper talks about using Blockchain in smart homes, breaking it down into three main parts. It explains how Blockchain can protect data and transactions, and talks about the security of IoT smart homes."*

**Keywords:** IoT, Smart Homes, Centralized Servers, Blockchain, Security, Privacy, Data Protection, Transactions, Decentralization