**LITERATURE SURVEY**

**CHAPTER 2**

**LITERATURE SURVEY**

A literature survey is a critical component of any research project or paper. It is a comprehensive review of existing literature on a specific research topic, which helps the researcher to identify knowledge gaps, current research trends, and potential avenues for future research. The purpose of a literature survey is to gather information and evidence from various sources, such as academic journals, books, reports, and other reliable sources, to establish a solid foundation for the research.

A literature survey is an essential part of any research project because it helps to define the scope of the project, provide context, and demonstrate the relevance of the research question. It also helps the researcher to understand the existing research landscape and identify the key concepts and theories related to the research topic. A well-conducted literature survey can provide valuable insights and ideas for the research and help the researcher to develop a more comprehensive and accurate understanding of the topic

There are several steps involved in conducting a literature survey for a research project. The first step is to identify the research question or problem and formulate the research objectives. This will help to narrow down the search and identify the relevant literature to be reviewed. The second step is to search for relevant literature using various search engines and databases, such as Google Scholar, Web of Science, Scopus, and PubMed. The search terms should be chosen carefully to ensure that the literature reviewed is relevant to the research question.

Once the literature has been identified, it should be critically evaluated to determine its quality, relevance, and reliability. This involves reading the abstract, introduction, methodology, results, and conclusion of each paper to assess its contribution to the field and its potential relevance to the research. The literature should be summarized and synthesized, highlighting the key findings, themes, and trends in the field. The literature survey should also identify any gaps or inconsistencies in the existing literature and suggest potential areas for further research.

In conclusion, a literature survey is a critical component of any research project, and it should be conducted carefully and systematically to ensure its accuracy and reliability. It helps the researcher to identify knowledge gaps, current research trends, and potential avenues for future research. It also provides a foundation for the research and helps to establish the relevance and significance of the research question. Therefore, it is important for researchers to invest sufficient time and effort in conducting a literature survey and to ensure that it is well-written and presented.

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| **Sl no** | **Title** | **Authors** | **Publisher & year** | **Related**  **work** | **Drawback** |
| 1 | Crowd- Funding Using Blockchain | Dr. Sumathi VP, Harish Krishna.S, Lakshya Jain, Hisham Ahmed | IEEE 2023 | Leveraging Ethereum blockchain, our crowdfunding platform utilizes smart contracts for enhanced reliability and efficiency. | Potential challenges include user complexity, gas price volatility, regulatory hurdles, and  scalability concerns. |
| 2 | Literature Survey on “Crowdfund ing Using Blockchain | Abhinav R.B,Ahmed Mohtesham,Akas h,Basavesh M,Farhan Ashraf | IRJET 2023 | Survey explores blockchain integration in crowdfunding, addressing asymmetry and transaction costs. | potential for fraudulent activities in crowdfunding. |
| 3 | Smart Contracts Security | Harry Virani, Manthan Kyada | ARXIV 2022 | Exploring smart contract studies, researchers delve into supply chain efficiency, code analysis, privacy, and challenges in cloud integration. | security vulnerabilities, lack arency, potentiof transpal for fraudulent activities, and challenges in  dispute resolution. |
| 4 | Crowdfundi ng Platform Recommen dation Algorithm Based on Collaborativ e Filtering | Yaming Li, Jiahao Liu , Yuying Jin, Xinxin Fan , Bixi Wang | ICCSCT 2022 | The research endorses collaborative filtering, customizing crowdfunding suggestions based on user affinities. Top of Form | The research endorses collaborative filtering, customizing crowdfunding suggestions based on user affinities.  Top of Form |
| 5 | Blockchain- Based Crowdfundi ng Application | Viren Patil,Vasvi Gupta,  Rohini Sarode | IEEE 2021 | Examined crowdfunding methods, ensuring security, transparency, and smart contract utilization. | lacks real- world cryptocurrency integration and practical deployment information. |

**2.1 Literature Surveys of All Base Papers**

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| 6 | A Survey of Security Vulnerabilities in Ethereum Smart Contracts | Noama Fatima Samreen, Manar  H. Alalf | ARXIV 2021 | Prior studies lack depth in Ethereum Smart Contract vulnerabilities and prevention. | Current tools focus on specific vulnerabilities without  comprehensive analysis. |
| 7 | A Survey on Ethereum Systems Security: Vulnerabilities, Attacks, and Defenses | Huashan Chen,Marcus Pendleton, Laurent Njilla, Shouhuai xu | ACM  Comput 2020 | Ethereum security insights against prior blockchain surveys. | Lack of coverage on other blockchain implementations beyond Ethereum in the  related work. |
| 8 | Crowd Funding using Blockchain | Ms. S. Benila,V. Ajay,  K. Hrishikesh,R. Karthick | GRD  Journals 2019 | Implementing blockchain in crowdfunding for improved reliability & efficiency. | Challenge of high gas fees associated with blockchain transactions. |
| 9 | A  Decentralized Application on Ethereum Blokchain | R. Vishnu Prasad,Ram Dantu  Aditya Pau,Paula Mears  Kirill Morozov | IEEE 2018 | solves eBay issues, enhances privacy, and reduces fees. | Navigating the intricate decentralized framework poses a significant  onboarding challenge. |
| 10 | Crowdfunding: principles, trends and issues | Stéphane Onnée , Sophie Renault | ResearchGate 2016 | Crowdfunding thrives on diverse models, including gifts, rewards, loans, creating multifaceted platforms for collaborative financial support | Intellectual property risks, exposure to replication, a crowdfunding drawback. |

**2.2 Literature Survey Summary**

This chapter gives details about various base papers that are related to the proposed project work. It shows how various activities related to the project were carried out at different point of time. It gives a short introduction to each base paper, talks about their shortcomings and tells how this project can overcome those shortcomings.