

CONTENTS

Contents	Page No
LIST OF FIGURES	i
LIST OF TABLES	ii
LIST OF ABBREVIATIONS	iii
ABSTRACT	iv
CHAPTER 1 – INTRODUCTION	1
1.1 Centralized Cloud Computing: A Bottleneck in the Digital Age	
1.2 The Emergence of Edge Computing	
1.3 Advantages of Edge Computing	
1.4 Edge Computing in Modern Applications	
CHAPTER 2 - LITERATURE SURVEY	5
2.1 Edge Intelligence: Empowering Intelligence to the Edge of Network	
2.2 Resource Scheduling in Edge Computing: A Survey	
2.3 Edge-Computing-Enabled Smart Cities: A Comprehensive Survey	
2.4 An Overview on Edge Computing Research	
2.5 Edge-Computing Architectures for Internet of Things Applications	
2.6 A Comprehensive Survey on Mobile Edge Computing: Challenges, Tools, Applications	
CHAPTER 3 – EVOLUTION OF EDGE COMPUTING	9
3.1 Content Delivery Networks (CDNs)	
3.2 Cloudlets	

3.3 Fog Computing	
3.4 Mobile Edge Computing and Multi-Access Edge Computing	
3.5 Other Notable Computing Paradigms	
CHAPTER 4 - ARCHITECTURE	12
4.1 Edge Devices and Edge Nodes	
4.2 Core Components of Edge Computing Architecture	
CHAPTER 5 – KEY ENABLING TECHNOLOGIES	14
5.1 Edge Intelligence	
5.2 5G Connectivity	
5.3 Containerization	
CHAPTER 6 – APPLICATIONS	16
6.1 Smart Cities	
6.2 Healthcare	
6.3 Autonomous Vehicles	
6.4 Industrial IoT	
6.5 Military Applications	
6.6 Augmented And Virtual Reality	
CHAPTER 7 – CHALLENGES AND LIMITATIONS	20
7.1 Standardization	
7.2 Resource Constraints	
7.3 Energy Efficiency	
7.4 Security And Privacy	

CHAPTER 8 – FUTURE TRENDS	22
8.1 Increased Data Processing at the Edge	
8.2 Integration with 5G and IoT	
8.3 Standardization And Green Energy	
CHAPTER 9 - CONCLUSION	24
CHAPTER 10 - REFERENCES	25