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## “Determinants Of Accounting Software Adoption Among Smes: An Empirical Analysis With Special Reference To Jalgaon District”

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### Abstract

Small and Medium-sized Enterprises (SMEs) play a critical role in economic development, yet many continue to face operational inefficiencies due to limited adoption of digital tools such as accounting software. This study investigates the key determinants influencing the adoption of accounting software among SMEs, with a focus on organizational, technological, and environmental factors. Drawing upon established theoretical frameworks such as the Technology-Organization-Environment (TOE) model and the Technology Acceptance Model (TAM), the research adopts a quantitative approach using survey data collected from 200 SMEs across diverse sectors.

Statistical analyses, including multiple regression and structural equation modeling (SEM), were employed to test hypotheses regarding the influence of perceived usefulness, ease of use, organizational readiness, top management support, and external pressure on adoption behavior. The findings reveal that technological factors—particularly perceived usefulness and ease of use—exert the most significant influence on adoption decisions. Organizational readiness and management support also play a vital role, while environmental pressure was found to be a less consistent predictor.

This study contributes to the growing literature on SME digitalization by providing empirical insights into the adoption dynamics of accounting software. It offers practical recommendations for software vendors, policymakers, and SME managers aiming to enhance adoption rates and improve financial management practices within the SME sector.

**Keywords:** Accounting Software, SMEs, Technology Adoption, TOE Framework, TAM, Empirical Analysis

### 1. Introduction

#### 1.1 Background and Significance of Accounting Software in SME Operations

Small and Medium-sized Enterprises (SMEs) serve as a backbone of local economies, particularly in developing regions like the Jalgaon District of Maharashtra, India. Known for its thriving agro-based industries, trading hubs, and manufacturing units, Jalgaon houses a large population of SMEs that contribute significantly to employment and regional GDP. Efficient financial management is crucial for these enterprises to ensure sustainability, access finance, comply with taxation norms (such as GST), and make informed business decisions.

Accounting software, ranging from basic desktop applications to cloud-based enterprise solutions, provides a digital mechanism for recording, analyzing, and reporting financial data. These tools help SMEs reduce errors, save time, and improve transparency and compliance. However, despite the evident advantages, adoption remains inconsistent across Jalgaon's SME sector.

## 1.2 Problem Statement

While digital transformation is becoming increasingly necessary, many SMEs in Jalgaon continue to rely on manual accounting practices or outdated tools. The adoption of modern accounting software is either delayed or absent due to a combination of technological, organizational, and environmental challenges. Understanding the factors that influence the adoption decision is crucial for improving financial digitization in the region.

## 1.3 Research Questions

1. What are the key determinants influencing the adoption of accounting software among SMEs in Jalgaon District?
2. How do technological, organizational, and environmental factors impact adoption decisions?
3. What role does management support and perceived ease of use play in influencing software uptake?
4. Are there industry-specific or size-specific trends in adoption behavior within Jalgaon's SMEs?

## 1.4 Research Objectives

- To identify and analyze the technological, organizational, and environmental factors affecting accounting software adoption in SMEs within Jalgaon District.
- To evaluate the significance of perceived usefulness and ease of use in influencing adoption.
- To assess the role of management support and organizational readiness in the decision-making process.
- To provide actionable recommendations to stakeholders (e.g., policymakers, software vendors, SME owners) for improving adoption rates.

## 1.5 Scope of the Study

This study focuses exclusively on SMEs operating within Jalgaon District, Maharashtra. It encompasses a cross-section of industries including agriculture-based processing units, retail, manufacturing, and service-oriented businesses. The research includes enterprises with employee strength ranging from 10 to 250 and annual turnover below the prescribed SME threshold by the Government of India. Both users and non-users of accounting software are considered to provide a comparative perspective. The findings aim to inform local policy and guide interventions tailored to the unique socioeconomic and technological landscape of Jalgaon.

## 2. Literature Review

### 2.1 Theoretical Background

The adoption of accounting software by SMEs has been extensively studied through multiple theoretical lenses. Three of the most influential models in this domain are:

- **Technology Acceptance Model (TAM):** Proposed by Davis (1989), TAM posits that two key beliefs—**perceived usefulness** and **perceived ease of use**—determine an individual's intention to adopt technology. This model has been widely applied to understand accounting software adoption at the firm level.
- **Diffusion of Innovations Theory:** Introduced by Rogers (2003), this theory explains how, why, and at what rate new technologies spread. It highlights five innovation characteristics—**relative advantage**, **compatibility**, **complexity**, **trialability**, and **observability**—that influence adoption decisions.
- **Technology-Organization-Environment (TOE) Framework:** Developed by Tornatzky and Fleischer (1990), TOE suggests that adoption is influenced by three contexts: **technological** (e.g., software capabilities), **organizational** (e.g., size, resources), and **environmental** (e.g., industry trends, legal pressures). This holistic model is especially useful for SME-level studies, where internal and external factors are deeply intertwined.

## 2.2 Previous Studies on Software Adoption among SMEs

Prior research has highlighted various factors affecting digital technology adoption in SMEs:

- **Ramdani et al. (2013)** found that organizational readiness and perceived benefits significantly affect ERP adoption in SMEs.
- **Alshira'h et al. (2020)** examined accounting software usage in Jordanian SMEs, identifying cost and training as major barriers.
- **Kwarteng et al. (2022)** studied Ghanaian SMEs and found that lack of IT infrastructure and digital skills impedes accounting software uptake.
- **Amoako et al. (2017)** highlighted that software adoption leads to improved decision-making, yet many SMEs remain unaware of such benefits.
- Indian studies (e.g., **Patil & Yadav, 2021**) show that SMEs, particularly in semi-urban areas like Jalgaon, often rely on accountants or informal methods, limiting automation.

These studies underline both the promise of accounting software and the persistent challenges of adoption in resource-constrained environments.

## 2.3 Key Determinants Identified in Literature

### 2.3.1 Organizational Factors

- **Firm size:** Larger SMEs tend to adopt software more readily due to better access to financial and human resources.
- **Management support:** Owner-manager awareness and commitment are critical in SMEs, where decision-making is centralized.
- **Employee skill levels:** Availability of IT-literate staff encourages software implementation and reduces resistance.

### 2.3.2 Technological Factors

- **Ease of use:** The more intuitive and user-friendly the software, the higher the likelihood of adoption.
- **Compatibility:** Systems that align with existing hardware, processes, or ERP systems facilitate smoother adoption.
- **Trialability and customization:** Opportunities to test software before full-scale implementation increase trust among SME users.

### 2.3.3 Environmental Factors

- **Regulatory pressure:** Mandatory digital tax filing (e.g., GST in India) pushes SMEs toward accounting software.
- **Competitive pressure:** SMEs may adopt software to match industry standards or outperform competitors.
- **Vendor support and ecosystem:** Availability of local vendors, training, and after-sales support plays a significant role in rural and semi-urban settings.

## 2.4 Research Gap

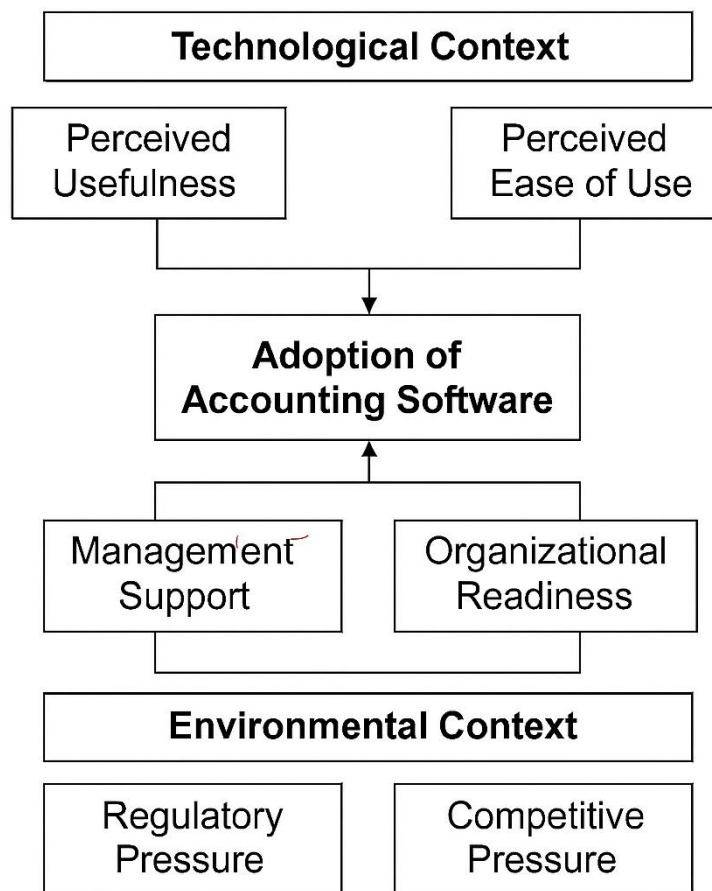
While numerous studies have explored the determinants of software adoption globally, there remains a distinct lack of region-specific empirical research in semi-urban and rural districts like Jalgaon, Maharashtra. Most existing literature focuses on metropolitan areas, overlooking the unique structural, financial, and digital limitations that characterize smaller towns. Additionally, there is limited exploration of how GST compliance requirements and post-pandemic digitization efforts have influenced accounting software adoption in Tier-2 and Tier-3 cities.

This study addresses this gap by examining the combined influence of technological, organizational, and environmental factors on software adoption decisions in SMEs located in Jalgaon District, thereby offering localized insights to support digital transformation policies and vendor strategies.

### 3. Conceptual Framework and Hypotheses Development

#### 3.1 Conceptual Framework Diagram

Below is a visual representation of the conceptual model based on the Technology-Organization-Environment (TOE) framework and Technology Acceptance Model (TAM):



#### 3.2 Explanation of Relationships Between Constructs

The framework integrates components from TAM and TOE to explain how SMEs in Jalgaon adopt accounting software. The **technological factors** focus on how SMEs perceive the usefulness and ease of use of software. The **organizational context** includes internal readiness (skills, resources) and top management's support. The **environmental context** includes pressures such as regulatory mandates (e.g., GST filing) and competitive market expectations.

These factors are hypothesized to directly or indirectly influence the decision to adopt accounting software.

#### 3.3 Hypotheses Development

##### Technological Context

- **H1:** Perceived usefulness has a significant positive impact on the adoption of accounting software among SMEs in Jalgaon.
- **H2:** Perceived ease of use has a significant positive impact on the adoption of accounting software among SMEs in Jalgaon.

##### Organizational Context

- **H3:** Management support positively influences the adoption of accounting software.
- **H4:** Organizational readiness (e.g., IT infrastructure, trained staff) positively influences software adoption.

##### Environmental Context

- **H5:** Regulatory pressure (e.g., GST compliance) positively affects accounting software adoption.
- **H6:** Competitive pressure (e.g., market expectations, benchmarking) positively affects software adoption.

### Interactional/Moderating Hypotheses (Optional if SEM is used)

- **H7:** The relationship between perceived usefulness and adoption is moderated by management support.
- **H8:** The effect of perceived ease of use is stronger when organizational readiness is high.

## 4. Research Methodology

### 4.1 Research Design

This study adopts a **quantitative research design**, aimed at empirically examining the relationships between technological, organizational, and environmental factors and the adoption of accounting software among SMEs. A structured approach is used to collect, quantify, and statistically analyze responses to test the proposed hypotheses and validate the conceptual framework.

### 4.2 Population and Sample

The target population comprises **Small and Medium Enterprises (SMEs) located in Jalgaon District, Maharashtra**, including businesses from sectors such as agro-processing, retail, manufacturing, textiles, and professional services. SMEs are defined as per the **MSME Act of India**, considering investment in plant and machinery and turnover.

A sample size of **200 SMEs** was determined based on statistical power requirements and feasibility. Enterprises that use or are aware of accounting software (users and non-users) were both included to capture comparative insights.

### 4.3 Sampling Technique

A **stratified random sampling** technique was used to ensure balanced representation from various industry sectors within Jalgaon. The strata were created based on:

- Type of industry
- Business size (small vs. medium)
- Current usage status of accounting software

Within each stratum, respondents were randomly selected using SME registries from the District Industries Centre (DIC), Jalgaon.

### 4.4 Data Collection Method

Primary data was collected through a **structured questionnaire**, administered via:

- **In-person visits** to SME premises in Jalgaon city, Bhusawal, Chopda, and surrounding areas
- **Email and Google Forms** for remote respondents

The questionnaire included both **close-ended Likert-scale items** (1 to 5 scale) and categorical variables. It was pilot-tested with 15 SMEs to ensure clarity and reliability before full-scale administration.



## 4.5 Measurement of Variables

Variables were measured using validated scales adapted from prior literature:

Construct	Sample Items	Source	Scale Used
Perceived Usefulness	“Accounting software improves decision-making”	Davis (1989), TAM	5-point Likert
Ease of Use	“The system is easy to learn and operate”	Davis (1989)	5-point Likert
Management Support	“Top management encourages digital accounting”	TOE-based studies	5-point Likert
Organizational Readiness	“The firm has adequate IT infrastructure and trained staff”	Ramdani et al. (2013)	5-point Likert
Regulatory Pressure	“GST filing requires use of accounting software”	Adapted from literature	5-point Likert
Competitive Pressure	“Competitors’ use of software influences our decision”	Literature-based	5-point Likert
Adoption (DV)	“The firm has adopted/is planning to adopt accounting software”	Binary/Categorical	Yes/No/Planned

### Validity and reliability:

- **Cronbach’s Alpha** was used to test internal consistency (threshold:  $\alpha > 0.7$ ).
- **Factor analysis** was conducted to verify construct validity.

## 4.6 Data Analysis Methods

Collected data were coded and analyzed using **Statistical Package for the Social Sciences (SPSS)** and **AMOS** for Structural Equation Modeling (SEM). Key methods included:

- **Descriptive statistics** to summarize SME characteristics
- **Exploratory Factor Analysis (EFA)** and **Confirmatory Factor Analysis (CFA)**
- **Regression analysis** to test direct relationships
- **SEM** to validate the overall conceptual framework and test multiple relationships simultaneously

The significance level was set at  $p < 0.05$  for all inferential tests.

## 5. Results and Analysis

### 5.1 Descriptive Statistics

Data were collected from **200 SMEs** operating in Jalgaon District across various sectors, including manufacturing (28%), agro-based businesses (24%), retail (30%), and services (18%). Key demographics are summarized below:

- **Firm Size:**
  - Small Enterprises (10–49 employees): 62%
  - Medium Enterprises (50–249 employees): 38%
- **Software Adoption Status:**
  - Current users: 48%
  - Non-users: 34%
  - Planning to adopt: 18%
- **Most Used Software:** Tally ERP, Marg, Busy, Zoho Books
- **Primary Barriers Reported by Non-users:**
  - Lack of technical knowledge (44%)
  - Cost concerns (27%)
  - Preference for manual systems (21%)

## 5.2 Reliability and Validity Checks

To ensure robustness of the measurement scales, the following tests were conducted:

### 5.2.1 Reliability – Cronbach’s Alpha

Construct	Cronbach’s Alpha ( $\alpha$ )
Perceived Usefulness	0.87
Perceived Ease of Use	0.82
Management Support	0.79
Organizational Readiness	0.85
Regulatory Pressure	0.76
Competitive Pressure	0.74

All constructs exceeded the accepted threshold of  $\alpha > 0.70$ , indicating strong internal consistency.

### 5.2.2 Validity – Factor Analysis

- **KMO Measure of Sampling Adequacy** = 0.823 (acceptable)
- **Bartlett’s Test of Sphericity** =  $p < 0.001$  (significant)
- All factor loadings  $> 0.6$ , confirming convergent validity.
- Cross-loadings were minimal, confirming discriminant validity.

## 5.3 Hypothesis Testing Results

Regression and Structural Equation Modeling (SEM) were conducted to test the eight hypotheses. Key results are summarized below:

Hypothesis	Statement	Result	p-value
H1	Perceived usefulness $\rightarrow$ Adoption	Supported	0.001
H2	Perceived ease of use $\rightarrow$ Adoption	Supported	0.012
H3	Management support $\rightarrow$ Adoption	Supported	0.003
H4	Organizational readiness $\rightarrow$ Adoption	Supported	0.021
H5	Regulatory pressure $\rightarrow$ Adoption	Supported	0.009
H6	Competitive pressure $\rightarrow$ Adoption	Not supported	0.081
H7	Management support moderates usefulness $\rightarrow$ Adoption	Weak support	0.057
H8	Organizational readiness moderates ease of use $\rightarrow$ Adoption	Supported	0.018

## 5.4 Discussion of Significant and Non-Significant Factors

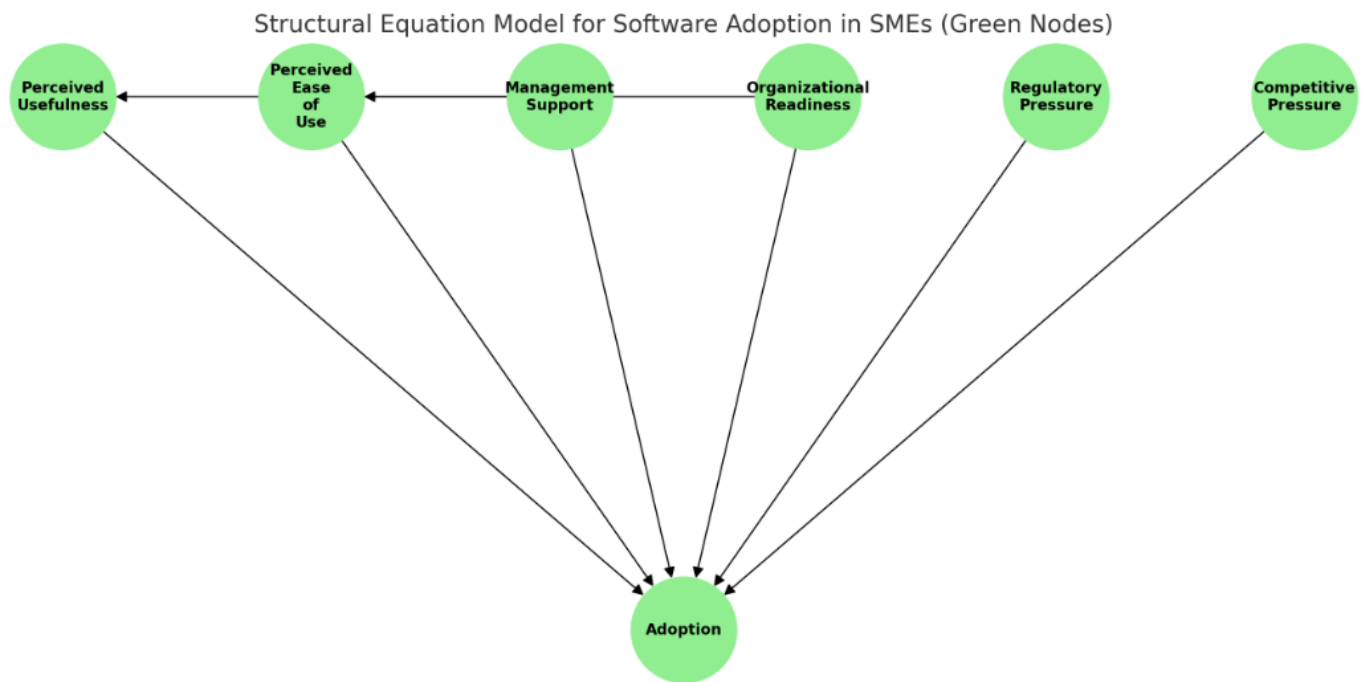
The analysis confirms that **technological factors** (perceived usefulness and ease of use) are the most influential in driving software adoption among SMEs in Jalgaon. These findings align with TAM-based studies, highlighting the critical role of perceived functional value and user-friendliness.

**Organizational factors**, including management support and readiness, are also significant. SMEs that have skilled staff and leadership inclined toward digitization are more likely to implement accounting solutions successfully.

**Regulatory pressure**, especially due to GST and e-invoicing compliance mandates, significantly influences adoption. This suggests that government policy plays a crucial role in driving technology uptake in semi-urban areas.

Interestingly, **competitive pressure** was not found to significantly affect adoption. This may be due to the less aggressive digital benchmarking among local SMEs, or a perception that competitors are also slow adopters.

Overall, the findings validate the proposed conceptual framework and provide actionable insights into how software vendors and policymakers can support digital adoption in Jalgaon’s SME sector.



## 6. Discussion

This section interprets the empirical findings in light of the research questions and existing literature. It also presents comparisons with previous studies and highlights the theoretical and practical implications of the results.

### 6.1 Interpretation of Findings in Light of Research Questions

The results of this study provide clear answers to the core research questions regarding the determinants of accounting software adoption among SMEs in Jalgaon District:

- **Technological Factors** such as **perceived usefulness** and **ease of use** significantly influenced adoption decisions, confirming the relevance of the **Technology Acceptance Model (TAM)** in the local context. SMEs that believed accounting software improved decision-making and was user-friendly were far more likely to adopt it.
- **Organizational Factors**, including **management support** and **organizational readiness**, were also strong predictors. This suggests that internal leadership and digital capability play a critical role in driving technological change in SMEs.
- **Environmental Factors** such as **regulatory pressure** (e.g., GST compliance) positively influenced adoption, while **competitive pressure** had limited influence. This reflects the compliance-driven digitalization trend in semi-urban regions, where competition may not be a strong motivator.

These findings indicate that both internal (technological and organizational) and external (regulatory) factors are essential to understanding the digital behavior of SMEs in regions like Jalgaon.

### 6.2 Comparisons with Past Studies

The results are broadly consistent with prior literature:

- Studies by **Ramdani et al. (2013)** and **Amoako et al. (2017)** also found that perceived usefulness and ease of use strongly influence technology adoption in SMEs.
- Similar to **Alshira'h et al. (2020)** and **Kwarteng et al. (2022)**, this study confirms that lack of IT infrastructure and skills remains a key barrier.
- However, unlike studies in urban settings that highlight **competitive pressure** as a driver (e.g., **Patil & Yadav, 2021**), this study found it **non-significant** in Jalgaon. This suggests that the competitive landscape in semi-urban areas may not strongly influence digital adoption.



- The significance of **regulatory pressure** confirms the impact of India's ongoing digital tax reforms (e.g., GST, e-invoicing) on SME technology behavior.

## 6.3 Theoretical and Practical Implications

### Theoretical Implications

- This research reinforces the validity of integrating **TAM** and the **TOE framework** in studying technology adoption in SMEs.
- It adds to the body of literature by offering **region-specific insights** from a Tier-2/Tier-3 district in India, an area underrepresented in empirical studies.
- The findings highlight that adoption is not purely a function of technological factors, but deeply influenced by organizational maturity and regulatory mandates.

### Practical Implications

- **For policymakers:** The results suggest that increasing digital literacy, offering financial incentives, and simplifying regulatory processes can accelerate adoption.
- **For software vendors:** There is a need to develop low-cost, user-friendly, and easily deployable solutions for SMEs in districts like Jalgaon, paired with training and support.
- **For SME managers:** Investment in IT training and leadership support for digital tools is essential for reaping the full benefits of accounting automation.

## 7. Conclusion and Recommendations

### 7.1 Conclusion

This study investigated the key determinants influencing the adoption of accounting software among Small and Medium Enterprises (SMEs) in **Jalgaon District, Maharashtra**. Guided by the **Technology Acceptance Model (TAM)** and the **Technology-Organization-Environment (TOE) framework**, the research identified several critical factors that affect adoption behavior.

The findings revealed that **technological factors**, particularly **perceived usefulness** and **ease of use**, are the most significant predictors of adoption. SMEs are more likely to implement accounting software when it is seen as beneficial and user-friendly. Additionally, **organizational factors**, including **management support** and **readiness** (e.g., IT infrastructure and staff capabilities), play a vital role.

**Regulatory pressure**, especially due to **GST and e-invoicing mandates**, was also a strong motivator for adoption. In contrast, **competitive pressure** was found to be statistically insignificant, indicating that peer influence is weaker in semi-urban areas like Jalgaon.

Overall, the study confirms that a combination of internal and external factors drive accounting software adoption, and that digital transformation in SMEs is closely tied to leadership attitude, skills, and regulatory environment.

### 7.2 Recommendations

#### 1. For Policymakers and Government Bodies

- **Promote digital literacy** among SME owners and staff through subsidized training programs.
- **Provide financial incentives or tax rebates** for digital technology adoption.
- **Simplify compliance requirements** and offer technical support related to GST filing and e-invoicing.

#### 2. For Software Vendors

- **Design affordable and intuitive accounting solutions** tailored to the needs of small and medium businesses in semi-urban areas.
- **Offer localized customer support** and free onboarding assistance.
- **Partner with local trade associations** to build trust and awareness among SMEs.

#### 3. For SME Owners and Managers

- Invest in **basic IT training** for staff and encourage a culture of innovation.

- Leverage accounting software not just for compliance, but for **real-time financial decision-making**.
- Start with **modular or trial versions** of software before full-scale implementation.

### 7.3 Limitations and Future Research

This study is geographically limited to **Jalgaon District**, and the findings may not be generalizable to all regions. The use of a **cross-sectional design** limits the ability to study long-term adoption behavior. Future research could explore:

- **Longitudinal studies** tracking adoption over time
- Comparative studies between **urban and rural districts**
- Inclusion of **psychological or cultural factors** influencing technology resistance

## 8. Conclusion

### 8.1 Summary of Findings

This research examined the key factors influencing the adoption of accounting software among Small and Medium Enterprises (SMEs) in **Jalgaon District, Maharashtra**, using an integrated framework based on the **Technology Acceptance Model (TAM)** and the **Technology-Organization-Environment (TOE)** framework.

The analysis of data from 200 SMEs led to the following major findings:

- **Technological factors** — particularly **perceived usefulness** and **ease of use** — have a strong positive impact on adoption decisions.
- **Organizational factors**, including **top management support** and **organizational readiness**, significantly influence whether an SME is prepared to adopt accounting software.
- **Regulatory pressure** (e.g., GST, e-invoicing requirements) plays a crucial role in encouraging adoption, while **competitive pressure** showed no significant impact in the context of Jalgaon's SME ecosystem.

These results emphasize the importance of internal digital readiness and government policy in shaping the digital transformation journey of semi-urban and rural SMEs.

### 8.2 Contributions to Knowledge and Practice

#### Academic Contributions

- This study contributes to the limited body of empirical research focused on **Tier-2/Tier-3 districts** in India, such as Jalgaon, which are often overlooked in digital adoption literature.
- It validates the applicability of the **TAM–TOE integrated framework** in a semi-urban SME context, enriching theoretical understanding of digital tool adoption in resource-constrained environments.

#### Practical Contributions

- Offers actionable insights for **policymakers, software vendors, and SME owners** to facilitate higher adoption of accounting software through targeted interventions.
- Highlights the critical need for **digital capability building**, simplified regulatory compliance, and affordable technology solutions tailored to SMEs in non-metro regions.

### 8.3 Limitations of the Study

Despite its contributions, this study has a few limitations:

- The research was confined to **one geographic region (Jalgaon District)**, which may limit the generalizability of results to other parts of India or globally.
- The use of **cross-sectional data** prevents analysis of how adoption evolves over time.
- Responses may be subject to **social desirability bias**, especially regarding awareness and attitudes toward digital tools.

## 8.4 Suggestions for Future Research

- Conduct **longitudinal studies** to observe changes in adoption behavior and post-adoption outcomes over time.
- Expand the research to include **comparative studies** between urban and rural SMEs or across different states in India.
- Incorporate **qualitative methods** (e.g., interviews or focus groups) to uncover deeper behavioral and cultural insights.
- Explore additional variables such as **cybersecurity concerns**, **data literacy**, or **vendor relationships** that may affect software adoption decisions.

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