

Research Article

An Empirical Study on Factors Shaping Effective Police Leadership for Crime Prevention in Bishoftu City

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Abstract

This study examined the factors influencing police leadership effectiveness in crime prevention within the Bishoftu City Police Administration, Ethiopia. An explanatory sequential mixed-method design was employed, integrating quantitative survey data with qualitative interviews. Quantitative data from 100 officers were analyzed using multiple linear regression, probit regression, and Spearman correlation to identify determinants of leadership effectiveness. The results shows that poor communication and budget shortages negatively affected leadership effectiveness, whereas educational status, experience, leadership style, and follower commitment had positive and significant influences on leadership performance, explaining over 70% of the variance in effectiveness. Qualitative findings supported these results, highlighting the need for improved communication systems, adequate resource allocation, and leadership development programs. The study contributes empirical evidence to the limited literature on police leadership in Ethiopia and offers practical recommendations for enhancing crime prevention outcomes.

Keywords

Attitudes Toward Police, Law Enforcement Recruitment, Peace Officer, Police Accreditation, Police Attitudes, Police Decision-making

1. Introduction

Leadership is a central element in shaping organizational performance, influencing how institutions respond to challenges and achieve their goals [25]. Within policing, leadership plays a particularly critical role because it directly affects both internal effectiveness and public safety [19]. Police leaders are expected to guide, motivate, and support their officers while addressing complex challenges such as crime, limited resources, and community trust [32]. When leadership is effective, police organizations are better positioned to prevent crime, ensure justice, and build confidence among the communities they serve [34].

Globally, scholars agree that leadership effectiveness is in-

fluenced by a range of factors, including communication, organizational resources, leadership style, job commitment, and emotional intelligence [8]. Other studies emphasize the importance of professional skills, incentives, awareness, commitment, and even the negative influence of corruption [5]. In the Ethiopian context, research highlights factors such as top management commitment, reward systems, teamwork, training, culture, supervision, planning, and infrastructure as central to leadership effectiveness [30]. Despite being one of the most widely studied subjects worldwide, leadership remains complex and is often misunderstood, particularly within policing institutions where organizational outcomes

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directly affect community safety and social order [1].

Although there has been progress in leadership research in Ethiopia, most studies have focused on schools, companies, and other public institutions [7]. For example, Hailu [15] identified empowerment, transparency, and vision sharing as important factors influencing leadership in private organizations, while Hunde and Desalegn [17] found that school leaders lacked adequate preparation in mobilizing financial and material resources. Similarly, [21] reported that leadership effectiveness in Ethiopian technical and vocational colleges was influenced by empowerment, motivation, communication, and vision sharing. However, research specifically examining leadership effectiveness in the police sector remains scarce [20].

The case of Bishoftu City Police Department illustrates this gap clearly. According to its human resources data, employee turnover has been rising, particularly in the criminal investigation department. Leadership is likely among the factors

contributing to this problem. Yet, no study has systematically examined how leadership influences effectiveness in crime prevention within this police administration.

Despite existing research on leadership in other sectors, there is a lack of empirical evidence on how leadership effectiveness shapes crime prevention outcomes in Ethiopian police institutions. Previous studies in Addis Ababa emphasized community participation and crime pattern analysis [14], yet little attention has been given to how police leadership practices themselves influence crime prevention outcomes. This study addresses that gap by examining internal leadership factors affecting police effectiveness in Bishoftu City [6]. This study fills that gap by systematically examining the key factors influencing police leadership effectiveness in Bishoftu City. It explores how communication, education, resource allocation, leadership style, and follower commitment affect leadership performance and, in turn, the success of crime prevention efforts.

2. Conceptual Framework

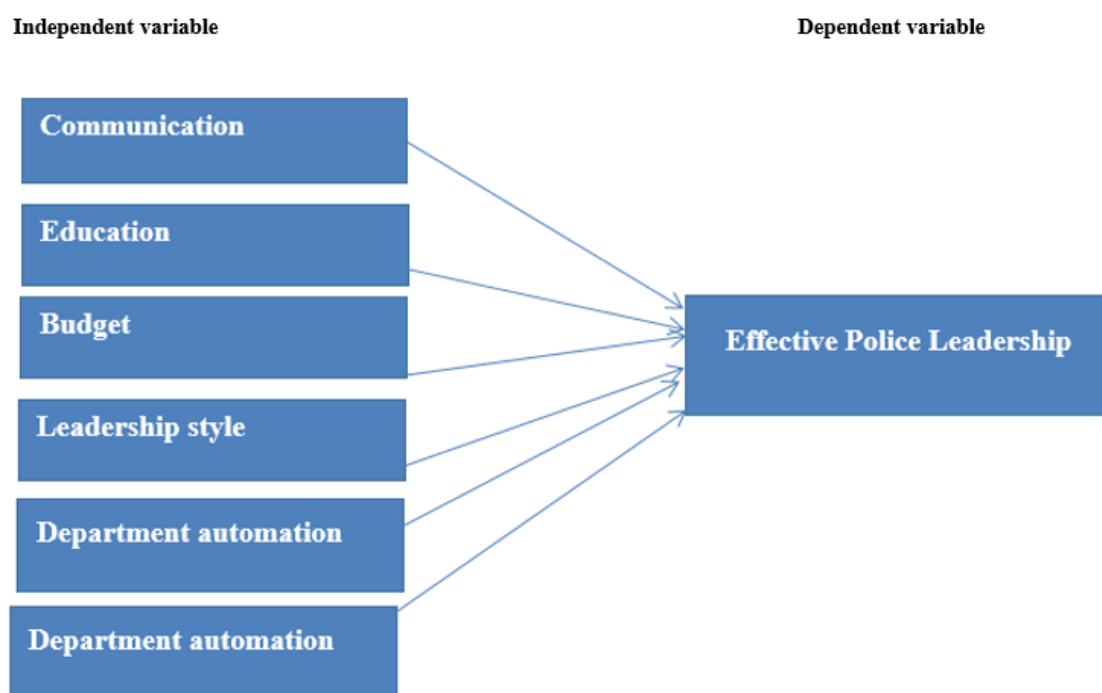


Figure 1. Conceptual Framework. Source: Researcher's own design, 2025.

3. Research Methods

Research design

This study employed an explanatory sequential mixed-method design to investigate the factors influencing leadership effectiveness in crime prevention within the Bishoftu City Police Administration. The quantitative phase fo-

cused on identifying relationships among key variables such as communication, resource allocation, education, experience, leadership style, and follower commitment [3]. The qualitative phase was then conducted to explain and enrich the quantitative findings by exploring officers' perceptions, experiences, and interpretations in more depth [4].

This design was selected because it allows for both statistical precision and contextual understanding quantitative data reveal general trends, while qualitative insights provide

deeper explanations for observed patterns [12]. The design aligns with Creswell [9], who emphasizes that sequential explanatory approaches strengthen the validity and interpretive depth of mixed-method studies.

4. Research Approach

A sequential explanatory mixed approach was used, involving two phases. First, quantitative data were gathered through structured surveys and analyzed using descriptive and inferential statistics to identify patterns and relationships. Second, qualitative data were collected through in-depth interviews and open-ended questions to explain and enrich the quantitative results. This design provided deeper insights into the “why” and “how” behind the statistical findings. Consistent with Creswell’s [9] recommendation, the integration of both methods strengthened the validity of the study and offered a comprehensive understanding of leadership effectiveness in the police department [31]. The combination of quantitative and qualitative approaches enhanced the study’s reliability and depth [16]. Quantitative analysis provided objective measures of relationships, while qualitative insights offered interpretive understanding of the underlying causes [20]. This integration is particularly valuable in policing studies, where leadership effectiveness is shaped not only by measurable organizational variables but also by human factors such as perception, motivation, and interpersonal communication.

Population of the Study, Sample size and sampling technique

The study population included all members of the Bishoftu City Police Administration, covering staff from crime prevention, crime investigation, leadership, management, and other units. This diverse group represents the entire workforce engaged in law enforcement and crime prevention activities, making it appropriate for examining leadership effectiveness [11].

This study combined probability and non-probability sampling techniques. A stratified census approach was applied to the entire population of 134 police officers. The workforce was divided into meaningful categories such as crime prevention, investigation, leadership, and management to ensure balanced representation. Since the population size was manageable, including all members reduced sampling error and captured the full range of perspectives.

In addition, a purposive sampling method was used to select key informants for in-depth interviews. These included senior officers, crime prevention experts, and community

policing leaders. They were deliberately chosen because of their experience and specialized knowledge, which provided richer insights beyond what the survey data could reveal.

Instrument of Data Collection

For this study, the researcher employed both questionnaires and interviews to investigate factors affecting leadership effectiveness in crime prevention at the Bishoftu City Police Department. The questionnaire developed by the researcher in English and translated into Afan Oromo, included two sections: personal information and closed-ended items on key themes, using a 5-point Likert scale. This design ensured clarity for respondents and alignment with the study’s objectives [33].

To obtain deeper insights and validate the survey data, the researcher conducted face-to-face interviews with senior police officials in Afan Oromo. This qualitative approach was justified as it captures opinions, attitudes, experiences, and emotions that cannot be measured quantitatively. Responses were coded and translated into English for reliable analysis, with each interview lasting less than an hour.

Methods of Quantitative Data Analysis

Quantitative data were analyzed using descriptive and inferential statistics. Percentages, frequencies, mean scores, and standard deviations summarized survey responses. Two parametric regression methods multiple linear regression and probit regression were conducted using SPSS (version 27) to model the relationship between leadership effectiveness and explanatory variables (poor communication, budget shortage, educational status, experience, department automation, leadership style, and follower commitment). Additionally, Spearman’s rank correlation, a non-parametric method, was used to assess associations between these variables and leadership effectiveness, providing a robust check for monotonic relationships without assuming normality. Diagnostic tests including multicollinearity (Variance Inflation Factor, Tolerance Test), normality, and heteroscedasticity (Breusch-Pagan Test), ensured model validity [29].

Econometric Model specification

The researcher used a probit model to examine factors affecting leadership effectiveness in the Bishoftu City Police Department. Leadership effectiveness is the dependent variable, while poor communication, lack of teamwork, budget shortage, educational status, experience, leadership style, followers’ commitment, and department automation are explanatory variables. The model assumes normally distributed errors, independent observations, and no perfect multicollinearity [17]. It estimates the impact of each factor on the probability of achieving effective leadership.

$$SLR = \beta_0 + \beta_1 * PCM + \beta_2 * BST + \beta_3 * EDS + \beta_4 * EX + \beta_5 * DA + \beta_6 * LST + \beta_7 * FLC + U_i$$

Data Reliability and Validity (quality assurance)

The researcher ensured data quality through a pilot test and statistical checks. A pilot test was conducted with 28 respondents to assess the clarity and relevance of the ques-

tionnaire items. Reliability was measured using Cronbach’s Alpha, with all constructs exceeding the acceptable threshold ($\alpha \geq 0.7$) and an overall reliability of 0.823, indicating good internal consistency [18]. Validity was confirmed through

factor analysis using KMO and Bartlett's tests, ensuring that the instrument accurately measured the intended constructs [24].

Table 1. *Validity test.*

KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy		.919
	Approx. Chi-Square	256.309
Bartlett's Test of Sphericity	Df	21
	Sig.	0.000

The KMO value (0.919) indicates excellent sampling adequacy, and Bartlett's Test ($\chi^2 = 256.309$, $p = 0.000$) confirms significant correlations among variables, showing that the data is suitable for factor analysis [23].

5. Results and Finding

The study found that leadership effectiveness at the Bishoftu City Police Department is moderately influenced by several factors, with a cumulative mean of 3.53. Poor communication, with a mean of 3.57 and a standard deviation of 1.18, and budget shortages, with a mean of 3.75 and a standard deviation of 1.23, were identified as the most significant constraints, limiting managerial oversight, law enforcement, and emergency response. A senior officer noted that limited budgets hinder effective staff monitoring and resource allocation (Interview #1, May 21, 2025).

Educational status, with a mean of 3.61 and a standard deviation of 2.35, and experience, with a mean of 3.60 and a standard deviation of 1.07, showed variable effects across officers. Department automation, with a mean of 3.55 and a standard deviation of 1.00, and leadership style, with a mean

of 3.50 and a standard deviation of 1.08, moderately impacted effectiveness, while followers' commitment, with a mean of 3.12 and a standard deviation of 1.11, had the least influence.

Overall, these findings suggest that effective police leadership depends on clear communication, adequate resources, education, experience, leadership style, automation, and follower engagement, consistent with [22], who emphasizes that leadership effectiveness, is shaped by both leader abilities and team characteristics. These results show that communication and budget limitations reduce leadership effectiveness, while better education, experience, and supportive leadership styles enhance it.

Inferential Data Analysis Results and Findings

The study employed multiple linear regressions and probit regression, both parametric methods, to model the impact of explanatory variables on leadership effectiveness. Additionally, Spearman's rank correlation, a non-parametric method, was used to test monotonic associations between leadership effectiveness and explanatory variables (poor communication, budget shortage, educational status, experience, department automation, leadership style, and follower commitment), complementing the regression analyses by not assuming normality or linearity. The model is expressed as:

Table 2. *Model Summary.*

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.862 ^a	.743	.725	.347
Predictors: (Constant), Poor Communication, Budget Shortage, Educational Status, Experience, Department Automation, Leadership Style, Followers Commitment.				
Dependent Variable: Leadership effectiveness.				

Source: Compiled from survey questionnaires, (2025)

The model summary shows a strong linear relationship between the seven predictors and leadership effectiveness, with a

correlation coefficient (R) of 0.862. The R-squared value of 0.743 indicates that 74.3% of the variation in leadership effectiveness is

explained by the predictors, while the remaining 25.7% is due to factors not included in the model. The adjusted R-squared of 0.725 confirms that approximately 72.5% of the variation is reliably captured by the model, demonstrating a good fit.

Test of Model Adequacy (ANOVA)

Analysis of variance (ANOVA) is a method of splitting the total variation into meaningful components that measure different sources of variation.

Table 3. ANOVA test result.

ANOVA ^a						
Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	32.263	7	4.609	38.09	.000 ^b
	Residual	11.158	92	.121		
	Total	43.421	99			

a. Dependent Variable: Leadership effectiveness

b. Predictors: (Constant), Poor Communication, Budget Shortage, Educational Status, Experience, Department Automation, Leadership Style, Followers Commitment

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

The ANOVA results indicate that the regression model is statistically significant ($F = 38.09$, $p < 0.001$). The sum of squares for the regression is 32.263, and the residual sum of squares is 11.158. The degrees of freedom for the regression and residuals are 7 and 92, respectively, with mean squares of 4.609 and 0.121. The significant F-statistic confirms that the model provides a good fit and that the predictors collectively

have a meaningful impact on leadership effectiveness.

Evaluating significance of individual regression Coefficients

Regression coefficients estimate the relationship between each predictor and the dependent variable, leadership effectiveness [27].

Table 4. Test of coefficients.

Model	Unstandardized Coefficients		Standardized Coefficients	T	Sig.
	Beta	Std. Error	Beta		
1	(Constant)	.733	.250	4.898	0.000
	Poor Communication	.168	.064	.587	0.000
	Budget Shortage	.153	.056	.441	0.000
	Leadership Style	.160	.045	.537	0.000
	Experience	.155	.045	.504	0.000
	Department Automation	.354	.021	.395	0.201
	Educational Status	.234	.021	.552	0.400
	Followers Commitment	.101	.110	.488	0.000

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

As indicated in Table 4 above on the SPSS output on regression coefficients, the regression equation.

Poor Communication

Hypothesis 1 (H1): Poor communication has a significant

positive effect on leadership effectiveness.

The p-value for poor communication is 0.000, less than 0.05, leading to rejection of the null hypothesis (H0). The unstandardized coefficient (B) is 0.168, indicating that a one-unit increase in poor communication increases leadership effectiveness by 16.8%, holding other variables constant.

Budget Shortage

Hypothesis 2 (H2): Budget shortage negatively affects leadership effectiveness.

The p-value is 0.000 (<0.05), and $B = -0.153$, implying that a one-unit increase in budget shortage corresponds to a 15.3% decrease in leadership effectiveness, holding other variables constant.

Leadership Style

Hypothesis 3 (H3): Leadership style significantly influences leadership effectiveness.

With a p-value of 0.000 and $B = 0.160$, a unit increase in leadership style leads to a 16% increase in leadership effective-

tiveness.

Experience

Hypothesis 4 (H4): Experience positively affects leadership effectiveness.

The coefficient ($B = 0.155$) suggests that greater experience increases leadership effectiveness by 15.5%, holding other variables constant.

Followers' Commitment

Hypothesis 5 (H5): Followers' commitment positively influences leadership effectiveness.

The p-value is 0.000, and $B = 0.101$, indicating a 10% increase in leadership effectiveness with higher follower commitment.

Multi collinearity

Multicollinearity tests are used to identify strong correlations among explanatory variables and to prevent duplication in a regression model [28]. The Variance Inflation Factor (VIF) and tolerance values are commonly applied measures.

Table 5. Multicollinearity result.

Variables	Tolerance	VIF
Poor Communication	.258	3.87
Budget Shortage	.219	4.55
Leadership Style	.694	1.44
Experience	.383	2.61
Department Automation	.752	1.33
Educational Status	.568	1.76
Followers Commitment	.429	2.33

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

VIF indicates how much the variance of a regression coefficient is inflated due to multicollinearity, with values below 10 suggesting no serious multicollinearity [2]. Tolerance measures the proportion of variability in an independent variable not explained by the other predictors [10].

The above Table 5 presents the multicollinearity results. All VIF values are below 10, and tolerance values are greater than 0.1, indicating that multicollinearity is not a concern among the independent variables. Therefore, the regression coefficients can be considered reliable, and the null hypothesis of

multicollinearity is rejected.

Auto-correlation test: The Durbin-Watson statistic was 1.6251, indicating a low likelihood of autocorrelation in the regression residuals. This confirms that the regression results are reliable.

Heteroscedasticity: The Breusch-Pagan test was used to check for heteroscedasticity in the regression model. The F-statistic p-value of 0.4096 exceeds 0.05, indicating no evidence of heteroscedasticity. Thus, the residuals have constant variance, confirming the reliability of the model.

Table 6. Breusch-Pagan-Godfrey Resultb.

Diagnostic Test Description	Statistic	p-value
F-test for model specification and heteroscedasticity	1.068897	0.4096
Breusch-Pagan LM test for heteroscedasticity	10.75869	0.3766

Diagnostic Test Description	Statistic	p-value
Scaled explained sum of squares for model fit	5.390081	0.8636

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

Normality Test

Normality of the regression residuals was assessed using the Shapiro-Wilk test, along with skewness and kurtosis values. The Shapiro-Wilk p-value was 0.15, greater than 0.05, leading to acceptance of the null hypothesis that the residuals are normally distributed [13]. Skewness (-0.626) and kurtosis (3.648) further confirm that the data follow a normal distribution, supporting the validity of the regression analysis.

Correlation between Leadership Effectiveness and Its Determinant Factors

Hypotheses were tested using both regression and correlation results.

The multiple linear regression shows significant effects for poor communication ($p = 0.000$), budget shortage ($p = 0.000$), educational status ($p = 0.04$), experience ($p = 0.000$), leadership style ($p = 0.000$), and follower commitment ($p = 0.000$), rejecting the null hypotheses of no relationship. The probit regression (Table 7) confirms significant effects for educational status, budget shortage, poor communication, and follower commitment. Spearman's correlation (below) further supports these findings with significant associations ($p < 0.01$) for most variables, except department automation.

Table 7. Spearman correlations.

	Variables	N	Spearman Correlation	Sig.(2-tailed)
Leadership Effectiveness	Poor communication	100	.702**	.000
	Budget shortage	100	.177	.008
	Educational status	100	.192	.045
	Dep. automation	100	-.572	.310
	Experience	100	.903**	.000
	Leadership style	100	.862**	.000
	Followers' commitment	100	.903**	.000

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

Table 7 shows significant correlations ($p < 0.01$) for poor communication, budget shortage, educational status, experience, leadership style, and follower commitment, but not for department automation ($p = 0.31$).

Logistics Regression Result

For probit models with a qualitative dependent variable, conventional R-squared is not appropriate, so likelihood ratio-based measures are used to assess goodness of fit. This measure compares the log-likelihood of the model with predictors to the log-likelihood of a model with only a constant,

and ranges from 0, indicating no explanatory power, to 1, indicating perfect prediction. In this study, the likelihood ratio for the probit model is 0.6856, indicating that the model explains approximately 68.56% of the variation in the dependent variable.

Probit Regression Analysis

By running logistic regression analysis above the relationship between leadership effectiveness and the rest explanatory variables was analyzed in the following Table 8 shows the probit regression analysis model summary.

Table 8. Regression result.

Variables	Coefficient	Std. Err.	Z. value	P. value
EDS	2.5222	0.08031380	2.37	.005
EX	6.2770	0.01106400	3.88	.175
BST	-0.0032	1.59881700	-0.49	.005
DA	4.2279	0.80295180	1.54	.999
LST	0.8960	1.29921100	0.28	.510
PCM	2.8890	0.79107030	2.13	.010
FLC	1.99900	0.8345122	2.31	.001
__cons	-2.4180	2.81610400	-2.68	-0.20
Observation = 100				
LR chi2(12) = 0.7856				
Prob > chi2 = 0.0000				
Pseudo R2 = 0.72				

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

The probit regression (Table 8) identified educational status ($p = 0.005$), budget shortage ($p = 0.005$), poor communication ($p = 0.010$), and follower commitment ($p = 0.001$) as significant predictors, with a pseudo R^2 of 0.7263, explaining 72% of the variation.

According to [26, 32], studied on leadership effectiveness in group situations, conclude that leadership effectiveness is affected by personality characteristics of members of the group being led. This was conducted with the variables of

personality and training of the leader, the characteristics of the group being led, the situation in which the group operates, and the goals being sought.

Post Estimation

The table below shows marginal effect of significant variables of factors influencing leadership effectiveness in criminal justice sectors of police institutions: the case of Bishoftu city police administration.

Table 9. Marginal effect of significant variables.

Variables	dy/dx	Delta-method Std. Err.	Z	P>z
EDS	0.112863	0.0056583	2.3400	0.015
EX	0.100004	0.0007287	2.8330	0.550
BST	-0.59367	0.1043849	-0.480	0.030
DA	0.840211	0.0436023	0.1300	0.622
LST	0.483639	0.0638016	0.8100	0.533
PCM	0.353675	0.0000415	1.870	0.012
FLC	.02117854	0.0243111	0.941	0.022

*, ** & *** are at 10, 5% and 1% level of significance respectively.

Source: Compiled from survey questionnaires using SPSS V 27, (2025)

Table 9 reports the marginal effects from the probit regression, showing that a one-unit increase in educational status (11%, $p = 0.015$), poor communication (35%, $p = 0.012$), and

follower commitment (21%, $p = 0.022$) increases the probability of effective leadership, while budget shortage (-59%, $p = 0.030$) reduces it. Consistent with theoretical expectations,

budget shortage has a negative marginal effect, meaning that as financial constraints increase, the probability of achieving effective leadership decreases.

6. Conclusion and Recommendations

Conclusion

This study concludes that effective police leadership plays a decisive role in promoting successful crime prevention within the Bishoftu City Police Administration. The findings show that communication barriers and limited budgets negatively influence leadership effectiveness, while educational level, experience, leadership style, and follower commitment positively enhance it. In addition, experience and leadership style were also found to contribute meaningfully to leadership effectiveness, particularly in fostering coordination and motivation among officers.

The statistical results from multiple linear regression ($R^2 = 0.743$), probit regression (pseudo $R^2 = 0.7263$; likelihood ratio = 0.6856), and Spearman's correlation consistently confirm these relationships. Complementary qualitative evidence from interviews further highlighted the importance of improving internal communication, ensuring adequate funding, and expanding leadership training programs to strengthen institutional capacity. This study concludes that leadership effectiveness in the Bishoftu City Police Administration is strongly shaped by both institutional and individual factors. Communication barriers and budget shortages weaken leadership performance, whereas education, experience, supportive leadership styles, and committed followers strengthen it.

Therefore, the Oromia Police Commission and training institutions should prioritize continuous leadership education, enhance budget efficiency, and develop communication systems that promote transparency and collaboration.

Recommendations

- 1) Addressing financial and communication constraints is essential because resource shortages and weak communication channels significantly reduce leadership effectiveness.
- 2) Encourage continuous education for police leaders through scholarships or academic partnerships, given its consistent significance across analyses.
- 3) Introduce recognition programs and team-building activities to boost officer engagement, enhancing leadership effectiveness.
- 4) Prioritize experienced officers in leadership roles and establish mentoring programs to transfer expertise, as experience was significant in linear regression and correlation.
- 5) Develop leadership training programs focusing on transformational and situational leadership, given its significance in linear regression and correlation.
- 6) Investigate additional factors, such as community engagement or technological integration, to further enhance leadership effectiveness in crime prevention.

Suggestion for future researchers

Since this research is only limited to Bishoftu city and re-

searchers can use it as a benchmark for the study of another similar research. The scope of this study was cross-sectional, whereas the researchers were advised to follow longitudinal to ensure that the findings were more comprehensive and the research result contribution was maximized. Further research should also be conducted using another variable that have an effect on leadership effectiveness, such as empowerment, transparency, relationship building, vision sharing, and working on leadership traits.

Abbreviations

OPC	Oromia Police Commission
BCPA	Bishoftu City Police Administration
ANOVA	Analysis of Variance
KMO	Kaiser-Meyer-Olkin Measure of Sampling Adequacy
VIF	Variance Inflation Factor
LM	Lagrange Multiplier

Author Contributions

Fikadu Getachew Mideksa: Conceptualization, Data curation, Formal Analysis, Investigation, Writing – original draft, Writing – review & editing

Fekadu Tefessa: Methodology, Project administration, Supervision, Validation, Writing – review & editing

Conflicts of Interest

The authors declare that they have no conflicts of interest regarding the publication of this paper.

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