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Inflation and Economic Development: A Vibrant CommitteeThreshold Analysis for Turkish Republics in Transition Process

* Dr. Urooj Talpur, Assistant Professor (Correspondent Author)

** Najia Shaikh, Assistant Professor

*** Sikandar Hussain Soomro, Assistant Professor

Abstract

This examination analyzes the effect of expansion on financial development in five Turkish nations (Azerbaijan's, Kazakhstan, Kyrgyzstani, Uzbekistani, and Turkmenistani) that are on the move, finished powerful investigation of limit boards' information. The aftereffects of the study show that there is a nonlinear connection among expansion and development rates; the edge for the effect of swelling on financial development is 7.97%, and expansion over this edge adversely affects monetary development, while expansion underneath this edge emphatically affects monetary development. These outcomes show that high expansion will altogether affect financial development. In such a manner, it is critical to accomplish practical development, which assumes a significant part in expanding the viability of applied financial strategy and in guaranteeing strength. Thus, policymakers and policymakers in extraordinary economies do not overlook the possibility of a money-related limit while setting the objectivedegree of expansion in their enemy of swelling endeavors.

Keywords: Limit, Expansion, Monetary Development, Dynamic Board

Introduction

The connection between development and expansion is quite possibly the most examined and talked about subjects in the authentic interaction of financial turn of events. Swelling, which firmly impacts the meaning of macroeconomic pointers. Furthermore, guaranteeing soundnessin the economy are two of the primary issues that are tended to and focused on in pretty much every business college. Currently, a lacking or insufficient economy is constantly connected with serious issues like destitution, joblessness, and low government assistance. Expansion, then again, prompts many negative impacts that are examined by financial experts. Despite thedegree of improvement, solidness of development and costs are viewed as key execution measures on the whole nation. To guarantee steadiness, consideration ought to be addressed to cost dependability and business issues in the economy. From this point of view, developmentis one of the principal marvels adding to the business.

The legitimate working of financial life and the supportability of monetary accounting reports depend, specifically, on the standard and stable construction of the macroeconomic factors thatmake up the financial design. A lopsidedness in macroeconomic factors addressing the general construction of the economy contrarily affects the general design of monetary life. Consequently, a stable macroeconomic construction is essential for maintained and stable financial development (for example nations that enter and make it economical in the reasonabledevelopment measure) (Erkan, 2002; 2003). Stable monetary construction and in this way manageable financial development rely intensely upon value soundness (Tara and Kumku, 2005).

As an overall definition, value strength alludes to the lowest & manageable swelling frequency,which fixes not inspiration venture, singular utilization then reserves funds and inclination choices. It is imperative to forestall the general cost level from expanding or bringing down more than explicit breaking point esteems. Value soundness is the main essential for guaranteeing medium-and long haul monetary and social solidness and guaranteeing a maintainable turn of events. A nation's monetary, political and social constructions can enduresignificantly if it neglects to accomplish value soundness in its economy.

* Department of Economics, University of Sindh, Jamshoro Email: talpur.urooj8899@yahoo.com
** Institute of Commerce University of Sindh, Jamshoro Email: najia.shaikh@usindh.edu.pk
***Department of Economics, University of Sindh, Jamshoro Email: sikandar@usindh.edu.pk

Without referring to this, it is hard to make future answers for reserve funds, speculation, creation, and utilization, and a climate of expanding vulnerability is hampering monetary development. The reserve funds to be utilized to back the advancement of nations with regards to inflationary instability and, subsequently, inflationary vulnerability is utilized in speculative territories to accomplish more significant yields than for genuine venture or creation. This contrarily affects financial development, prompting a reduction in genuine interest in the economy.

Furthermore, expansion prompts a fall in genuine speculation, diminishing maker benefits and buying power on the other. Accordingly, cost strength in an economy makes us a significant factor that expands development potential to grow further and make the economy more proficient and practical. Then again, rising cost levels not just contrarily affect utilization, venture, and development, expanding clearness, yet additionally extending the hole between pay bunches by interrupting the social dispersion of the inco;4me (for example weakening in pay dissemination contrasted with fixed pay gatherings) (generally, economies with high expansion rates have below development rates than economies in danger of monetary insurance).

The effect of expansion on development has for some time been talked about in the writing of the economy. The substance of these conversations changes from the time frame (monetary cycle) that was the subject of the world economy. After the Great Depression of 1929, the Statestarted to assume a functioning part is created and agricultural nations and actualize interventionist procedures. With the usage of measures that increment total interest, creation and swelling have expanded. During this period, the swelling was not seen as an issue. Swelling is even an idea to positively affect development.

At the point when the financial framework, called Bretton Woods, which was in a roundabout way ordered to gold, finished during the 1970s, it started to talk about how to protect the estimation of cash, the measure of which was completely left to control by the national bank. During this period, money-related inventory has expanded quickly in numerous nations, including created nations. Because of the extension of the cash supply, expansion has arrived at twofold digits. High expansion and low development because of obligation emergencies andsupply stun during the 1970s and 1980s have started to affirm the view that there are interval results among these factors. What is more, declining development rate and proceeded with expansion development in numerous nations show that rising swelling is affecting development?

Value security as a financial arrangement has become the main objective in many created and agricultural nations over the long run. During this period, all fragments have acknowledged that solid and supportable financial development is just conceivable in the long haul if value steadiness is accomplished. Today, national banks in numerous nations that straightforwardly or in a roundabout way highlight swelling center around value dependability and hence characterize their approaches. To be sure, after the 2008 worldwide emergency, the connectionbetween swelling and development will be investigated in nations that have accomplished value security, and whether value strength is not adequate to naturally guarantee stable financial development.

Swelling is currently broadly accepted to contrarily affect medium-and long-haul development. Nobody contends that steady costs are terrible or not a need. What is the ideal expansion rate, if there is a sure edge for each gathering of nations and what amount of time does it require to accomplish soundness once the general value level is diminished to the ideal level is consistently on the plan?

Lately, value strength has been quite possibly the main essentials for steady and maintainable development in both the nations viable and in nations with a long history of the market economy. This genuine circumstance makes the quest for a connection between swelling and development. It is more significant for handling economies, where the nation impacts market costs when settling on choices or not deciding. That is the reason I am not during the time spent making a souk budget. Petite can be supposed around the effect of swelling on a country on the move. Hence, deciding if expansion conceivably affects these nations' monetary markers is of hypothetical and experience-based significance.

The connection between expansion and monetary development is perhaps the most examined point in financial writing. Nonetheless, this connection has not been adequately read for nations experiencing significant change that have deserted focal public area economies, are attempting to move towards the unregulated economy framework, and have an express that assumes a functioning part in costs. The momentary economy started to infiltrate the writing of the economy in the last part

of the 1980s. The momentary economy alludes to economies that have gone from a socially situated focal financial design to an unrestricted economy and the disintegration of the Soviet Union since the fall of the Berlin Wall in 1989.

The experimental goal of this investigation is to show the effect of swelling on monetary development in five Turkish republics that have moved from a state-controlled financial framework to a market economy that obliterated communist systems during the 1980s. The writing covers a predetermined number of educations on the connection among expansion besides financial development inside lagers preparing. This investigation looks at, for instance,the effect of the swelling limit on monetary development in 5 Turkish republics, which have genuinely feeble monetary frameworks contrasted with created marketplace frugalities and arein a temporary retro. In a this-as manner, the commitment to writing is significant for research on the basics of financial improvement of extraordinary economies. One more of the primary targets of this examination is to give a sufficient premise to conversations on expansion and development in handling economies, considering on mistaken hypothetical and experimental bases.

Literature Review

Albeit the writing contains numerous observational and hypothetical examinations on the connection between expansion and development, these investigations do not consider explicit patterns in the idea of this relationship. In applied exploration, the connection among expansionand financial development shifts by period and gathering of nations concerned, the pace of swelling to be considered, and the econometric strategy utilized. While numerous new investigations have revealed that expansion is an obstruction to development and adversely affects monetary development, moderately more established examinations show that swellingadvances development. The aftereffects of a Bible report on this subject can be partitioned intofour classes: expansion has no impact on financial development (Wai, 1959; Dobrin, 1966; 1967), swelling emphatically affected monetary development (Malik and Chudsura, 2001; 2003; 2009), and expansion contrarily affected monetary development (Fischer, 1983; Baron, 1995; swelling influenced monetary development inside a specific edge.

Ongoing investigations have shown that new strategies are utilized to expect that the connection among expansion and development is not direct to demonstrate the connection more plainly between them. On a fundamental level, this new technique demonstrates that oncea specific edge has been crossed, expansion can adversely affect monetary development. Albeitvarious outcomes have been accomplished in examinations regarding this matter, theseinvestigations show that the utilization of swelling in limit-based models prompts more clear outcomes to accomplish the effect of expansion on development. A portion of the investigations on this point is summed up beneath.

Hahn and Sen Haji (2001) analyzed the presence of an edge impact on the proportion of expansion to development in the overview of 140 created and non-industrial nations for the time frame 1960-1998. Gleason and Herbert's son (2001) led a comparative overview in 170 nations somewhere in the range of 1960 and 1992 and found that swelling affected financial development of over 10% to 20% each year.

Mubarak (2005) dissected the proportion of swelling to monetary development in the Pakistani economy with regards to a limit examination dependent on yearly information from 1973 to 2000.

Munir et al. (2009) directed an investigation on the economy in Malaysia for the time frame 1970 and 2005 and analyzed the connection between expansion and monetary development through the endogenous limit of oneself assault model (ART). They found that the edge for affecting swelling on financial development was 3.89%. Expansion over this edge adversely affected monetary development, however swelling decidedly affected financial development.

Hasanov (2011) directed a review in Azerbaijan as a momentary economy for the time frame 2000-2009 and set the expansion limit of 13%. It was discovered that while swelling underneath this level decidedly affects monetary development, expansion over the limitadversely affects it.

AK's and demur (2012) led a review in Turkey somewhere in the range of 2003:01 and 2009:12 and analyzed the nonlinear connection among swelling and financial development utilizing a two-year tar model. They found that the swelling edge for the whole examination time frame was 1.26. While exorbitant swelling adversely affects monetary development, underneath limit expansion has a positive effect.

(2013) consider the effect of the swelling edge on long haul financial development on the 1950-2004 data set for 124 industrialized and appointed. Hence, the swelling edge is 2% for creatednations

and 17% for non-mechanical nations. They presumed that expansion over the limit contrarily affected monetary development, yet that swelling beneath the edge unimportantly affected it. These outcomes uphold the view that swelling adds to the development of non-industrial nations.

Vijaya Raghavan (2013) analyzed the connection between expansion and financial developmentin 32 Asian nations somewhere in the range of 1980 and 2009 utilizing a powerful board edgemodel. The limit for the effect of swelling on financial development is 5.43%. It wasdiscovered that albeit the expansion rate over this edge adversely affected financial development, the swelling rate underneath this edge had no impact.

Tung and Thanh (2015) explored the presence of a limited impact among swelling and the development of their exploration in Vietnam as a temporary economy for the time frame 1986-2013.

Methodology

In this examination, we researched whether there is a connection between expansion and monetary development through an uneven investigation of information from 5 Turkish republics during the change time frame (Azerbaijani, Kazakhstan's, Kyrgyzstan, Uzbekistan's and Turkmenistan). Moreover, this presence plus part of-set the swelling limit inside such manner was inspected. Albeit the GDP development rate is utilized to gauge Gross domestic product per capita, a usually utilized pointer, is utilized in this investigation. The model-free factor is swelling (π). The swelling rate is determined as a yearly rate.

Purchaser Value Index (C.P.I). To see the effect of extra expansion related macroeconomics factors on monetary development, the portion of interest in GDP (gap), the development rate (drop), GDP per capita from the past period are utilized in the introduction of the first (unique)pay level, the logarithmic estimation of fares and imports of GDP in the underlying (open) introduction, and the dispersion of imports in the introduction of unfamiliar exchange (dot). (2001), Drucker et al. (2004) and Krimmers et al. (2012), as regulator factors inside this investigation. World Bank acquired genuine gross domestic product per capita information onthe data set. IPC information comes from International Financial Statistics (IFS). Assessmentfactors are characterized by the World Bank based on Penn's data set and Table 8.0. The maindata about factors in Table 1.

Table 1 Variable quantity, descriptions, and foundations

Variables	Abbreviation	Unit	Period*
Annual Growth Rates of Real GDP per capita in constant 2005 Prices	*dgdp*	%	1992-2013
Inflation Rate	*π*	%	1992-2013
The Percentage of GDP Dedicated to Investment	*igdp*	% GSYİH	1992-2013
The Population Growth Rate	*dpop*	%	1992-2013
The Initial Income Level	*initial*	USD	1992-2013
Openness	*open*	% GSYİH	1992-2013
The Percentage Change in Terms of Trade	*dtot*	%	1992-2013

The inspecting period was 1993-2014 for Azerbaijani, 1994-2014 for Uzbekistani and Turkmenistani, 1995-2015 for Kazakhstani, and 1997-2014 for Kyrgyzstanis.

Table 2 Evocative measurements

Country	T	π mean	dgdp mean
Azerbaijan	22	0.99	4.21
Kazakhstan	20	2.57	4.43
Kyrgyz Republic	18	2.20	3.48
Turkmenistan	21	3.26	4.02
Uzbekistan	21	3.04	3.29

The normal yearly pace of swelling in the nations remembered for this overview for the time frame 1992-2013 is around 2.41% (see Table 2 of the rundown of nations and total insights). Swelling information shows that there are a few boundaries of expansion. Already, a graphic examination was achieved to decide the expansion variety and ideal limit. Figures 1 and 2 showthe graphic measurements on the expansion degree and the logarithmical estimation of the swelling proportion.

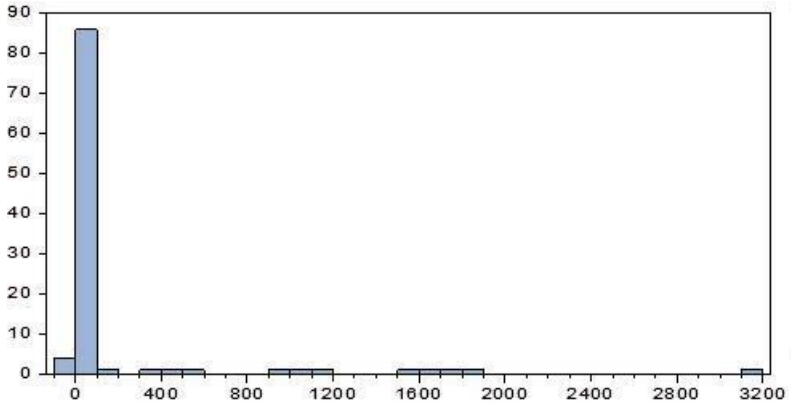

Fig 1: Swelling circulation (in levels)

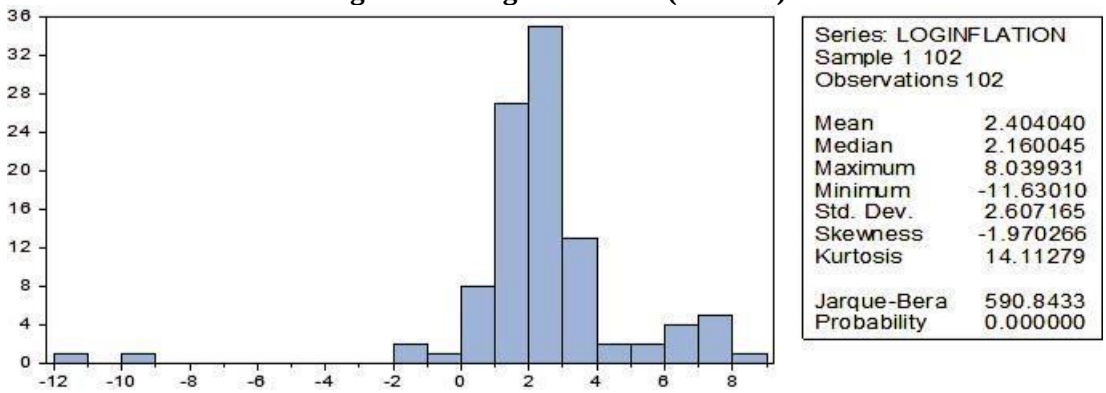

Fig 2: Dispersion of expansion (in the diary)

Ghosh and Phillips (1997) suggest utilizing the logarithmical estimation of the swelling rate in replicas to evade the undesirable impacts of extraordinary expansion on relapse results. Since expansion information contains negative qualities, the semi-logarithmic change applies to variable swelling dependent on Khana and Sen Haji (2000), Drucker et al. (2006), and Kramer et al. (2012). This change is made as follows:

$$\bar{\pi}_{it} = \begin{cases} \pi_{it} - 1 & if \quad \pi_{it} \leq \%1 \\ \ln(\pi_{it}) & if \quad \pi_{it} > \%1 \end{cases}$$

Our model uses an expanded estimation of genuine yearly GDP per capita as a logical variable. These brands the classical active. One of the fundamental presumptions of the neo-classical development hypothesis is that nations join during the progress time frame. Nations' development rates change contingent upon the underlying condition of the economy across all models, including progress elements. The theory that nations are combining during the progress time frame recommends that immature nations are becoming quicker than created nations. The speculation depends on the presence of yields that diminish the creation request (Ramírez and Ronda, 2013). Along these lines, our model uses past figures for genuine yearly GDP development per capita, which shows the first nations.

Utilizing postponed estimations of ward factors as logical factors in constants and irregular models utilized in static information investigation on the screen brings about a connection between's the deferred estimations of ward factors and the mistake conditions. This connection prompts an error between the projections of models with fixed and arbitrary impacts and between the conjectures acquired (Green, 2000). For this situation, dealing with the powerful information strategy for the dashboard wipes out the connection between the sharp estimations of ward factors and mistake conditions, improves the unwavering quality of forecasts made, and improves the request for the indicator got.

This examination utilized a powerful board limit model, which was the all-inclusive adaptation (Kramer et al., 2014) of the stationary perfect that Hansen (1999) applied to endogenous indicators. The Panel Edge model was created by building up the Canaveral cross-sectional model and Hansen (2004), which uses types anticipated by the gym that permit the utilization of endogenous factors. Appeared in condition 1.

$$y_{it} = \mu_i + \beta_1' z_{it} I(q_{it} \leq \gamma) + \beta_2' z_{it} I(q_{it} > \gamma) + \varepsilon_{it} \quad (1)$$

In condition 1, the records are I-1, in the yet model it alludes to the reliant variable; it alludes to the country-explicit fixed impact and the idea of a free and indistinguishable mistake ≈ characterized in 0.2. While I (.) is remembered for the model as a pointer work that shows the mode, it is utilized as a limit variable and as an edge. Furthermore, sizes are utilized as theinformative variable Vector m measurement, which contains deferred estimations of ward factors and other exogenic factors. The logical mutable course is situated in two subgroups ofthe perfect: z1it for the illustrative factors related to it and z2its for factors. (Kremer, and soon, 2013).

To anticipate the model in condition 1, the fixed impact for singular nations (I) should be wiped out principally by changing over the fixed impact. To these ends, the nonregular nonconformity proposed by Avellanos and Bovver (1996) was utilized as a technique for change. These strategies are addressed in Reckoning 2.

$$\varepsilon_{it}^{*} = \sqrt{\frac{T-t}{T-t+1}} \left[\varepsilon_{it} - \frac{1}{T-t}\left(\varepsilon_{i(t+1)} + \cdots + \varepsilon_{iT}\right)\right]$$

The characteristic of these strategies is that it permits to keep away from a sequential connection of the changed over blunder conditions. As per Kremer et al. (2013), this component permits the use of the estimating strategy utilized by Caners and Hansen (2005) to crossed-sectoral replicas in unique information representations.

The subsequent stage in foreseeing the classical contained in Calculation 1 is the utilization of a two-statistical strategy to decide the swelling edge (2C) For this reason, the first type of diminished relapse is accommodated exogenous factors (z2it), which are an element of the instrumental variable (It) as per Kiner and Hansen's (2003). The anticipated qualities (z2its) of the outer factors got from the classical are then utilized somewhat than the exogenic factors(z2its) of the underlying condition. The typical remembered for condition 01 is given the γ technique for the fixed edge. This restraint is communicated in Comparison 3 (Hansen, 2001).

$$\hat{\gamma} = argmin\ S_n(\gamma) \quad (3)$$

Considering Hansen (1998), Kenner and Hansen (2003), and Kramer et al. (2012), basic certainty esteems are determined at a 95% certainty stretch for the expansion edge. While ascertaining basic qualities, the breaking point is utilized in condition 4.

$$\Gamma = \{\gamma : LR(\gamma) \leq C(\alpha)\} \quad (4)$$

In condition 4, LR (γ) shows an asymptotic dispersion as far as likelihood factor insights, while C (α) shows 95% of this dissemination. As per Hansen (1999), the likelihood of a relationship considers the time utilized in every relationship. In the wake of setting the comparing limit (γ) instrument factors and the gauge edge. Condition 5 shows the powerful edge model set up by the basic technique for deciding the circumstance of the investigation of the effect of expansion on long haul monetary development.

$$dgdp_{it} = \mu_i + \beta_1 \bar{\pi}_{it} I(\bar{\pi}_{it} \leq \gamma) + \delta_1 I(\bar{\pi}_{it} \leq \gamma) + \beta_2 \bar{\pi}_{it} I(\bar{\pi}_{it} > \gamma) + \emptyset z_{it} + \varepsilon_{it} \quad (5)$$

In condition 5, the variable addresses the expansion rate for two kinds of modes, while addressing the vector factors of the control factors. Coefficients show the tendency variables of the modes, while the fixed coefficient of the plan is resolved. Because of Bick (2010) and Kremer et al. (2013), the underlying pay level () is utilized as an endogenous variable in the model.

As indicated by Rodman (2009), the utilization of all confounding estimations of ward factors in the powerful examination of the board as an instrument permits the expectation of coefficients without deviations and reliably. Hence, considering Arellano and Bovver (1995),all fixed estimations of model-subordinate factors were utilized as contributory factors.

Results

Table 3 showed the consequences of the powerful edge prototypical set up by the Group for the Study of the Impact of Rising on Long-Term Economic Development in 5 Turkish Democracies of Transformation. The highest point of the table shows the projected expansion edge and the 95% certainty stretch comparative with this worth. A big part of the table showsthe effect of swelling on the financial development of the two sorts of systems. Shows the unimportant effect of expansion on

the monetary development of the low swelling system, while showing the insignificant effect of expansion on financial development in high expansion mode. There is a low expansion system when swelling is beneath the normal edge, and when swelling is over the normal edge, there is a high expansion system.

As you can find in Table 3, the projected expansion edge is 7.97% (- 7.97). The terms mistake the amount of the squares that have a place with the got edges appear in Figure 3. Under the littlest mistake conditions for square qualities, the limit with the most minimal blunder conditions, the amount of the squares should be chosen as the comparing edge. While the most minimal breaking point for the 95% certainty edge is 2.13%, as far as possible for it is 38.03%. Swelling of 45% is introduced by way of a characteristic respite in the contrast among lowest and higher expansion (Brunei and Etherlike, 1997). Taking a gander at this differentiation, unmistakably the edge is beneath the swelling pace of 40%. There might be a few explanations behind the high edge in the economies covered by this examination. In the first place, change economies to a great extent use-value record frameworks and loan fees since they have insight in long haul expansion. These ordering frameworks may have incompletely diminished the negative impacts of swelling (Kremer et al., 2013). The subsequent explanation could be the combined cycle and the Balassa- Samuelsson impact (Han and Sen Haji, 2001). This impact recommends that the separation between relative efficiency and the market and non-business product areas in developing business sectors may impact changes in the genuine swapping scale and influence the swellinglimit (Alton, 2014).

Table 3 Inflation limit results and their effect on the development

Threshold Estimates	
$\hat{\gamma}$	7.97 %***
95 % confidence interval	[2.13, 37.03]
Impact of Inflation	
$\hat{\beta}_1$	1.142** (0.527)
$\hat{\beta}_2$	-1.752** (0.689)
Impact of Covariates	
$initial_{it}$	5.838** (2.426)
$investment_{it}$	0.339*** (0.065)
$population_{it}$	-2.860** (1.342)
tot_{it}	0.130*** (0.034)
$openness_{it}$	-2.177** (0.977)
$\hat{\delta}_1$	-8.331*** (2.567)
Observations	102
N	5

This table shows the outcomes for assessing the unique board edge utilizing all accessible postponements for the instrument variable. Standard mistakes are appeared in enclosures *, **,
** Addresses an importance level of %10, %5 sees %1.

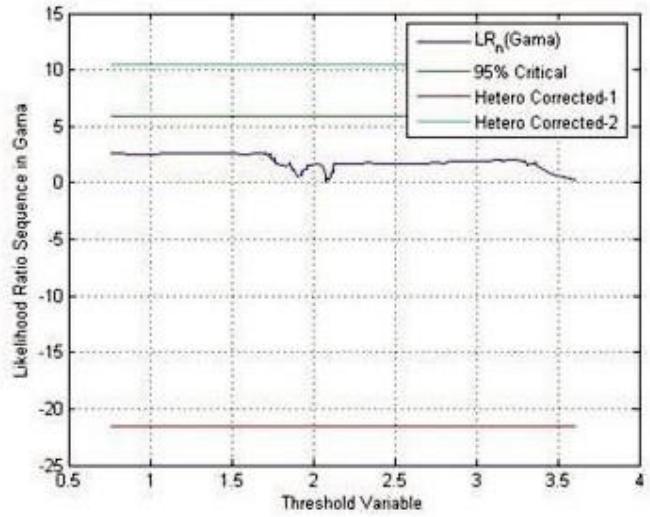

Fig 3: Set a certainty span for a limit.

Table 3 showed that the constant of the guideline is 1,142, though the quantity of the system is - 1,753 and that as nearby is factual importance. This shows that expansion has a positive peripheral impact on monetary development under the low swelling system, while under a highswelling system it has an insignificant negative impact on financial development. All in all, while expansion decidedly affects financial development beneath swelling, swelling over the edge contrarily affect swelling. Given its size, expansion greatly affects thefinancial development of the High Inflation Regime.

Conclusion

This investigation inspected the job of the expansion limit in the nonlinear connection amongswelling and financial development in 5 Turkish republics during the progress time frame (Azerbaijanis, Kazakhstanis, Kyrgyzstan, Uzbekistani, and Turkmenistan) for the time frame 1993-2014.

The target of the investigation is to decide the ideal swelling rate or to decide if there is an edge at which the State meets the commitments dynamic during the time spent forming the market economy and altogether affects market costs with choices it makes or not. Moreover, the investigation looks at what swelling in this gathering of nation's means for the development rate.

The outcomes give a new proof of a drawn-out nonlinear connection among expansion and financial development in the preparing ventures. Besides, these outcomes show that expansion will adversely affect financial development if swelling in these nations surpasses a specific basic level. The normal basic incentive for the trade economies considered is 7.97%. This outcome bolsters the view that moderate expansion beneath the limit emphatically affects monetary development. This finding does not demonstrate a causal connection between swelling and financial development. This just demonstrates the presence of a relationship. Then again, this examination shows how significant the swelling edge is in the connection between expansion and financial development. This investigation can give direction to future work on this point.

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