Project LaTeX Explainer and Navigational Guide

Documentation Index for the Shaikh & Tonak Replication September 28, 2025

Abstract

This guide explains where to find every major piece of information in the project: methodology, code, data, generated reports, and build instructions. Use it as a map to quickly locate what you need.

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1 Project Structure Overview

Path	Purpose			
Technical/data/	All data sources: extracted book tables, unified historical			
	database, and modern extension data.			
Technical/data/historidad/kotaklta/hiqui/cation targets), curated CSVs for '				
	5.x.			
Technical/data/unified_hategbasee/unicsiesbudactabdastee/base (CSV/XLSX)				
	metadata/logs.			
Technical/src/	All code (extraction, analysis, replication, validation, ex-			
	tension).			
Technical/src/analysis/Sceptiscation/oduce Table 5.4 and related results.				
Technical/src/analysis/Wadsidatliout/ion tools comparing sources and checking ac-				
	curacy.			
Technical/docs/methodology/methodology in LaTeX (complete technical description)				
	tion).			
Technical/docs/latex/	Focused LaTeX documents: code explainer, validation,			
	this explainer, and bird's-eye view.			
Technical/docs/reports/Generated reports and summaries.				
.github/workflows/	CI configuration for building PDFs (artifacts uploaded on			
	push/PR).			

2 Data Inventory (Paths)

Location	Contents	
Technical/data/historical/book_	tables: ted book tables (many 'ta-	
	ble_pXX_*.csv'), curated 'table_5_4*.csv'.	
Technical/data/historical/proce	Scepti cation products (e.g., 'ta-	
	ble_5_4_perfect_replication.csv', 'marx-	
	ian_variables_calculated.csv').	
Technical/data/unified_database,	/Umiffeded_database%V/XLSX plus	
	'database_metadata.json', creation logs	
	and summaries.	
Technical/data/modern/integrate	de/omplete_st_timeseries_1958_2025.csv' and	
	integration metadata.	
Technical/data/modern/final_resultatishfalishfulishful $\&$ SVs (1958-1989, 1958-20		
	+ metadata.	
Technical/data/modern/final_resuAtsdavanidentyeanlungdscenides and validation		
	JSON.	
Technical/data/modern/final_resulktsElvistinkteemsted variants and validation		
Technical/data/source_pdfs/keyPDsst/rce publications (NIPA, BLS, BEA, etc.		

3 Key LaTeX Documents and What They Contain

Document

Contents

Technical/docs/methodology/SHAIKHoTQNAKeMETHODOLOGY: texriable definitions, data sources, formulas, validation metrics, quality checks.

Technical/docs/latex/SHAIKH_TONAMI@METHIDDOg.GOWithIEHdeODEsiteximplementation notes and code-oriented details.

Technical/docs/latex/SHAIKH_TONARCOODEdEXPMINITED. tlexTeX formulas, and Python listings outside tables for clarity.

Technical/docs/latex/SHAIKH_TONAKiMAAJIDAATIGNaRERORT.tækidation; compiles even if plots are missing.

Technical/docs/latex/PROJECT_LATEXiEXR&AigMERortelxguide to all project resources.

Technical/docs/latex/PROJECT_BIRDS: RYE WE WE Tex: replication story, comparisons, updates, implementation reasoning, and charts.

4 Where to Find Data

- Book Tables: data/extracted_tables/book_tables/
- Unified Historical DB: data/unified_database/
- Modern Extension Inputs: data/modern/
- Source PDFs: data/source_pdfs/

5 Where to Find Code

• Replication: src/analysis/replication/

• Validation: src/analysis/validation/

• Extraction: src/extraction/

• Core Utilities: src/core/

• Extension: src/extension/

6 How to Build the LaTeX Documents

Build Commands

Use the project script in Technical/scripts/ (requires latexmk):

./Technical/scripts/build-latex.sh # defaults to Output/pdfs

 $./ Technical/scripts/build-latex.sh \ --outdir \ Output/pdfs$

Builds all .tex in Technical/docs/latex/ and Technical/docs/methodology/ (outputs under Output/pdfs).

Continuous Integration builds PDFs automatically on push/PR via .github/workflows/latex.yml and uploads them as artifacts.

7 Quick Links (Paths)

- Methodology: docs/methodology/SHAIKH_TONAK_METHODOLOGY.tex
- Code Explainer: docs/latex/SHAIKH_TONAK_CODE_EXPLAINER.tex
- Validation Report: docs/latex/SHAIKH_TONAK_VALIDATION_REPORT.tex
- Bird's-Eye View: docs/latex/PROJECT_BIRDS_EYE_VIEW.tex

8 Troubleshooting

Common Issues

- Missing images: documents are robust to missing plots and will compile without them.
- Package availability: latexmk and common LaTeX packages are required; CI installs TeX Live groups that satisfy them.
- Clean build: run latexmk -C in the output directory for a fresh build.