**CES White Paper** **November 2025**

# Investing in Bangladesh in the Age of AI and Automation


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**AI Disclosure:** This document was developed with the assistance of artificial intelligence tools for research support, proof reading, and language refinement. All data analysis, interpretation, and final editorial decisions were made by the authors.[1]

### Executive Summary


Bangladesh's investment universe is expanding rapidly, from sovereign debt and equities to gold, real estate, and alternative assets. In the coming decade, artificial intelligence (AI) and automation will fundamentally change productivity, labor markets, and the sources of national competitiveness. For Bangladeshi investors, this means rethinking where value will accrue, how risk will evolve, and what diversification should look like in a world shaped by machine intelligence and energy transformation.

This white paper expands on the traditional asset landscape with forward-looking insights, quantitative comparisons, and scenario-based tables that align domestic investment decisions with global technological shifts.


### 1. The Investable Landscape in Bangladesh

Bangladesh's financial landscape has grown visibly more sophisticated over the past two decades. Savings instruments like Treasury bonds, Islamic Sukuk, and Savings Certificates have given citizens and institutions a wider set of investment options, particularly those backed by sovereign credit. At the same time, capital markets, led by the Dhaka and Chittagong Stock Exchanges, now list companies from an increasingly diverse set of sectors such as telecommunications, pharmaceuticals, power, and financial services, which are booming revenue and operation-wise.

This diversification, although lacking depth to a margin, shows strong investor confidence and policy continuity. Yet, challenges persist at the structural level. Despite the long runtime of two of the stock houses, liquidity remains uneven, derivative products are scarce, and capital controls restrict international diversification. As a result, Bangladesh's savings continue to circulate within a narrow domestic arena.

[1] The final draft was tested using the Quillbot AI Detector (paid version), which indicated an estimated 11% AI usage.

In this context, diversification within the domestic market is imperative. Investors need to balance high-yield instruments such as NSCs with inflation-hedging assets like gold, while selectively venturing into equities and private credit for growth. The table below summarizes the most plausible investment options and their risk category.

Table 1. Comparative Yield and Risk Spectrum

| Asset Class | Access Mechanism | Expected Return (BDT Terms) | Liquidity | Policy/Regulatory Note | Key Risks |
|---|---|---|---|---|---|
| National Savings Certificates (NSCs) | Banks, post offices | ~11.5% annualized | Low | High safety; subject to periodic rate revision | Policy cap changes |
| Treasury Bills & Bonds | Bangladesh Bank, PDs | 8–10% | Moderate | Core sovereign exposure | Interest rate risk |
| Sukuk (Islamic Bonds) | PDs, CSE secondary market | 8–9% | Moderate | Shariah-compliant, growing demand | Thin secondary liquidity |
| Equities (DSE/CSE) | Licensed brokers | 12–15% (long-run) | Moderate | Market reforms improving transparency | Volatility, governance |
| Mutual Funds | Licensed fund managers | 8–12% | High | Diversified; regulated under BSEC | Tracking error |
| Gold (Physical) | Authorized jewelers | 6–10% real | Moderate | High local premium | Purity, storage, resale |
| Real Estate | Direct purchase | 7–10% rental yield | Low | Stable legal framework | Illiquidity, taxes |
| Private Credit / SME | Personal networks, MFIs | 12–20% | Very Low | Informal, high returns | Governance, default |
| Collectibles (Watches, Art) | Dealers, resellers | Variable | Very Low | Unregulated | Authentication, exit |

Even within Bangladesh's constraints, investors can design portfolios that span safe income to higher-risk alternatives. The balance between government-backed returns and entrepreneurial risk-taking defines modern portfolio management for domestic investors.

Table 2. Comparative Yield and Risk Spectrum

| Risk Level | Asset Examples | Typical Holding Period | AI/Automation Sensitivity |
|---|---|---|---|
| Low | NSCs, Sukuk, Govt Bonds | 3–10 years | Minimal (interest rate driven) |
| Medium | Equities, Gold | 1–5 years | Moderate (tech sentiment) |

| Risk Level | Asset Examples | Typical Holding Period | AI/Automation Sensitivity |
|---|---|---|---|
| High | Private Deals, Collectibles | 2–10 years | Low direct, high liquidity risk |

Investors should think of this spectrum dynamically. Combining long-duration NSCs with tactical exposure to equities or gold can cushion portfolios against inflation or volatility. As automation changes business models, agility in shifting capital between yield and growth tiers will become a competitive advantage.

**2. Automation and AI: Structural Shifts Across Asset Classes**

Bangladesh's growth over the past three decades has rested on two reliable pillars one is labor-intensive manufacturing which is largely Ready Made Garments and another one is overseas remittances. Both have powered consumption and job creation externally and internally, but both now face a technological reckoning. As automation spreads across global supply chains, the advantage of inexpensive labor will erode. The ready-made-garment (RMG) industry, for instance, may face cost pressures from factories of fellow competitor market that deploy automated and AI-driven quality control. For expatriates, who are the key drivers of remittance inflow, the type of work they are engaged in is largely blue-collar work and again this is labor intensive. In most of the sectors such as construction, food delivery, retail store, maintenance and so forth are already being automated. Most importantly, there has not been much investment made in preparing the future migrants for their cutting edge skill development. If we look closely, this same technological wave also opens new frontiers. Within Bangladesh, the use of artificial intelligence in logistics, power generation, banking, and telecommunications is improving productivity and reducing operational costs. There are already some use cases from banking, education, telecommunication, and ITes segment where AI is being used in moderation.The challenge, therefore, is not whether AI will affect the economy, but how quickly different sectors can adapt, retrain, and reinvest to remain competitive.

The takeaway for investors from this evolving context is a new allocation strategy. Sectors that form the backbone of the digital economy such as telecommunications, data infrastructure, and power are yet to benefit as connectivity, cloud use, and electricity demand rise. Banking and fintech are also entering a phase of AI-driven efficiency gains and early signs of . By contrast, traditional manufacturing faces a difficult adjustment period unless it embraces smart machinery and supply-chain analytics. Meanwhile, IT services, agriculture, and logistics are emerging as sunrise sectors: the first exporting AI-enabled solutions abroad, the latter two using automation to lift domestic productivity.

The table below outlines how automation is likely to affect key sectors of the Bangladeshi economy and what that means for investors seeking long-term positioning.

| Sector | AI Impact | Economic Channel | Investment Implication |
|---|---|---|---|
| Telecom & Data Infrastructure | Surging bandwidth and cloud usage | Digital economy backbone | Core long-term exposure |
| Power & Utilities | Rising load demand | Energy transition and capital investment | High reinvestment needs |

| Sector | AI Impact | Economic Channel | Investment Implication |
|---|---|---|---|
| Banking & Fintech | AI-driven underwriting, collections | Efficiency and cost control | Medium-term margin expansion |
| Manufacturing (Textiles, Garments) | Automation risk | Labor displacement | Negative unless upgraded |
| IT Services/BPO | Global AI outsourcing | Knowledge export | Strong upside potential |
| Agriculture | Smart farming, drone use | Productivity uplift | Gradual long-term gains |

To quantify these shifts better, the following table summarizes how each sector scores in terms of opportunity and disruption over the coming decade.

Table 3. AI Disruption Intensity (2025–2035)

| Sector | Opportunity Score | Disruption Score | Net Impact |
|---|---|---|---|
| Telecom | 9 | 3 | Positive |
| Power | 8 | 4 | Positive |
| Banking | 7 | 5 | Moderately Positive |
| Manufacturing | 4 | 8 | Negative |
| IT Services | 9 | 5 | Positive |
| Agriculture | 6 | 3 | Positive |

From this matrix, it is apparent that infrastructure and data-driven sectors are best qualified for AI-led growth in the short term. Bangladesh's recent push into renewables and fiber expansion aligns well with this future, while traditional manufacturing will need automation investments to remain competitive.

**3. Model Portfolios for Different Risk Profiles**

In the Bangladesh investment market, the investment choices are not endless; each instrument carries its own rhythm of risk and return. If we go by the table below we see a segmented picture of three types of investors, which is primarily based on portfolio consumption. In ideal scenario, the conservative investor seeks protection and predictability, relying on National Savings Certificates and Sukuk for steady income accompanied by a small share of gold or large-cap equities for balance. Those with a moderate appetite for risk build around the same secure base but extend into equities and selected real-estate or private ventures that benefit from automation and digital expansion. Growth-oriented investors, meanwhile, place greater confidence in Bangladesh's corporate and entrepreneurial dynamism, allocating more heavily to equities and SME financing, while keeping gold as insurance against volatility.

Conservative (Target IRR 8–10%)

| Asset | Allocation | Rationale |
|---|---|---|
| NSCs | 55% | Sovereign-backed, stable income |
| Govt Bonds/Sukuk | 25% | Defensive duration ladder |

| Asset | Allocation | Rationale |
|---|---|---|
| Gold | 10% | Hedge against shocks |
| Large-cap Equities | 10% | Dividend yield, low volatility |

Balanced (Target IRR 10–13%)

| Asset | Allocation | Rationale |
|---|---|---|
| NSCs | 35% | Secure base |
| Govt Bonds/Sukuk | 20% | Income floor |
| Equities | 30% | Exposure to AI growth |
| Gold | 10% | Store of value |
| Private/Real Estate | 5% | Opportunistic diversification |

Growth (Target IRR 13%+)

| Asset | Allocation | Rationale |
|---|---|---|
| NSCs/T-bonds | 20% | Liquidity reserve |
| Equities | 50% | Core driver of upside |
| Gold | 15% | Volatility hedge |
| Private/SME/Real Estate | 15% | Long-term return capture |

These models will vary from investor to investor but it projects light on the portfolio allocation examples.

**4. Policy and Regulatory Landscape**

Bangladesh's policy environment plays a major role in shaping what is investable. The Foreign Exchange Regulation Act (FERA) limits outbound capital flows, meaning most investors must stay within domestic options. Crypto assets remain prohibited, while the government is increasingly using Sukuk and ESG-linked bonds to attract capital.

| Theme | Key Takeaway | Implication for Investors |
|---|---|---|
| Capital Controls | FERA limits offshore investing | Stay domestic or use legal channels |
| Crypto Prohibition | Explicit ban on crypto trading | Avoid exposure via local accounts |
| Corporate Bonds | Regulatory reforms ongoing | Expect gradual deepening |
| Green Finance | AI and energy projects may attract ESG funds | Monitor Sukuk or sustainability-linked issuances |

These policies suggest that while global diversification remains limited, local innovation through Islamic finance and sustainability instruments could create new opportunities.

**5. Scenario Analysis: Automation and Asset Outcomes**

Different global trajectories of AI adoption can affect how asset classes perform in Bangladesh. The table below highlights the likely winners and losers across scenarios.

| Scenario | Macro Description | Likely Asset Winners | Losers |
|---|---|---|---|
| Base Case (Gradual AI Adoption) | Productivity rises, moderate inflation | NSCs, Gold, Telco stocks | Manual manufacturing |
| Tech Acceleration | Rapid automation, high energy use | Power, IT, Data Infra | Labor-heavy industries |
| Disruption Shock | Job loss, social unrest | Gold, Govt Bonds | Equities, Real Estate |
| Energy Transition Boom | Renewables scale, AI efficiency | Sukuk, Utilities, ESG funds | Fossil-based manufacturing |

This analysis shows that sovereign instruments and gold provide resilience in uncertainty, while equities in AI infrastructure sectors dominate in growth cycles. Investors should use scenario planning to rebalance portfolios annually.

**6. The AI-Era Investment Framework**

As automation permeates production and services, investors need a simple, repeatable test that separates durable cash flows from narratives. The discipline is threefold: adaptability (can the firm absorb and deploy new tools), information advantage (does it sit on data or distribution that compounds), and risk control (is balance-sheet and exit risk understood). Viewed through this lens, the question is not whether a business touches AI, but whether AI improves its unit economics and resilience.

Some thought provoking questions to be asked to generate the heatmap. 1. Does automation strengthen or weaken this business model? 2. Is the cash flow resilient to power or data disruptions? 3. Can the company reinvest in productivity-enhancing technologies? 4. What is the liquidity horizon? Can you exit in a crisis? 5. Is the innovation genuine or speculative?

Table 3. Asset Class Heat Map (AI-Era Readiness)

| Asset | Benefit from AI | Risk from AI | Overall Outlook |
|---|---|---|---|
| Telco | High | Low | Strong Positive |
| Power | High | Medium | Positive |
| IT Services | High | Medium | Positive |
| Banking | Medium | Low | Moderately Positive |
| Manufacturing | Low | High | Negative |
| Gold | Neutral | Neutral | Safe Haven |
| Real Estate | Mixed | Medium | Neutral to Slightly Positive |
| Watches | Neutral | High | Speculative |

AI offers extraordinary opportunities for wealth creation, but it also amplifies volatility and inequality. Bangladeshi investors who remain disciplined, combining stable income instruments with selective AI-linked growth plays, will be well positioned for the next decade.

## Conclusion

Bangladesh's capital market remains largely domestic while the real economy is becoming more digital and more power intensive. That tension defines the investor's task. Income still needs to be secured at home, but returns over the next decade will accrue where data moves and electricity flows. The question to ask is not whether a company uses AI, but whether technology lowers unit costs, strengthens cash flows, and improves the ability to exit under stress.

A practical allocation follows from this logic. Keep a stable income core in NSCs, Sukuk, and Treasuries. Add measured exposure to listed names in telecom, power, banking, and IT services where operating leverage rises with fiber build-out, grid expansion, and analytics. Hold a modest allocation to gold as protection against policy or currency surprises. Treat manufacturing as investable when plants upgrade machinery, data, and skills. Treat private credit as useful only when governance and security are concrete rather than implied.

The difference shows up in outcomes. A household that keeps roughly three fifths in sovereign income, one tenth in gold, and the rest in equities linked to network and grid expansion participates in growth without unsettling the whole portfolio. A bank that deploys data-driven scoring and early collections sees provisions fall and margins hold, while a bank that grows loan books without better underwriting pays later through higher credit costs. An RMG facility that adopts automated cutting, quality analytics, and energy-efficient lines secures longer contracts and fewer defects, while a plant that remains manual loses when buyers demand traceability and faster turnaround. A mid-tier IT provider that shifts from hourly billing to managed AI workflows raises gross margin and client stickiness; one that only markets AI without changing delivery does not.

Policy sets the feasible set and it is better to align with it. Outbound diversification will remain narrow under FERA, so market deepening is more likely to arrive through Sukuk and sustainability-linked issuance than through rapid liberalization. Investors can lean into that direction. A utility that issues green Sukuk for solar plus storage with tariff clarity offers a predictable coupon and a growing asset base. A data-center partnership with contracted power and connectivity can deliver similar visibility on the equity side. Crypto bans and a thin corporate bond market argue against speculative detours and in favor of patient participation in instruments the authorities are actively building.

Risk management should be driven by paths rather than headlines. Once a year, hold the portfolio up to four simple scenarios: gradual AI adoption, rapid adoption, a disruption shock, and an energy transition boom. Shift weights rather than churn holdings. In a fast-adoption year, a modest increase in power and data infrastructure is sensible. In a shock, moving a small share from equities to sovereign income and gold preserves optionality. Use a common test for every position. Ask whether automation strengthens the model, whether cash flows can withstand power or data disruption, whether reinvestment is affordable, whether an exit exists in stress, and whether the innovation is observable in operations rather than only in presentations.

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