

AI-Powered Bank Statement Analyser

Intelligent Financial Insights Platform



Smart Insight

Current banking systems deliver raw transaction data but offer little practical guidance. Without intelligent analytics, users struggle to understand spending patterns, spot trends, and forecast financial outcomes making processes manual, time-consuming, and less effective.

Data Overload

- Large volume of transaction data makes analysis difficult

Limited Insights

- Traditional bank statements lack meaningful categorization

Manual Analysis

- Users must manually track and interpret spending patterns

Low Trend Visibility

- Financial trends and anomalies are hard to detect

No Smart Intelligence

- Absence of forecasting and behavioral spending analysis

Trend Forecast

Smart Categorization

- Automatically sorts transactions and recognizes patterns

Predictive Insights

- Forecasts future spending and financial trends

Behavioural Analysis

- Understands user spending habits

Custom Reports & Alerts

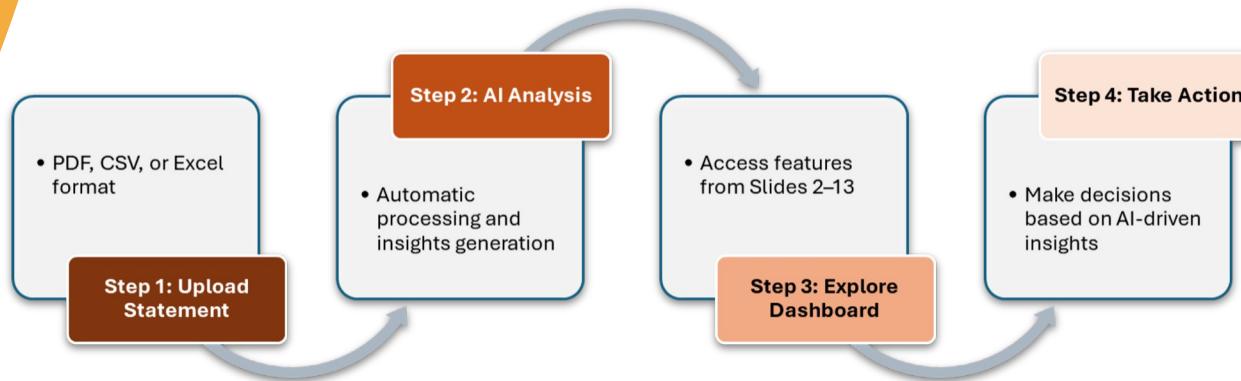
- Personalized notifications and reporting

Decision Support

- Helps users make informed financial choices

With the help of AI, Bank statement will transform into clear, actionable insights. It automates categorisation, predicts spending trends, analyses behavior, and delivers customisable alerts empowering smarter, faster financial decisions with confidence.

Work Flow

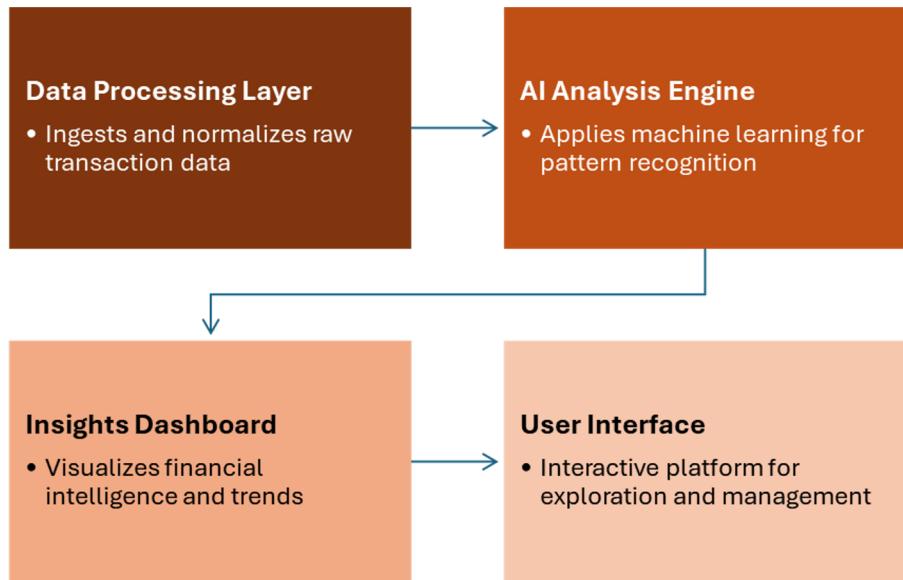


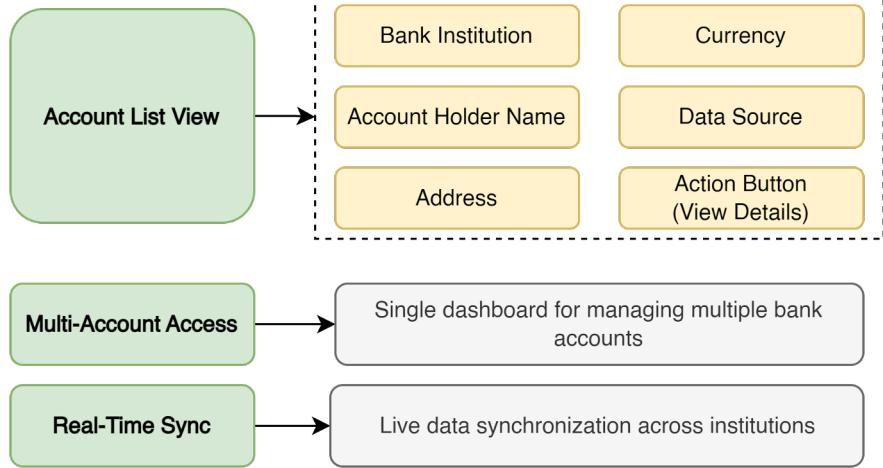
The platform follows a clear four-step process: start by submitting a bank statement file, let AI automatically analyse the data, explore insights through the interactive dashboard, and take informed action based on the result for faster investigations and smarter financial decisions.

The screenshot illustrates the eBdesk platform's document processing workflow. On the left, under 'Raw Documents' (Unprocessed sources), a PDF of a bank statement from 'SAB AB Bank' is shown. The PDF is a multi-page document with a table of account statements. On the right, under 'Extracted' (Raw Extracted), the platform has processed the document, extracting the account statement table. The extracted data is presented in a clean, tabular format with columns for Date, Value, and Balance. The platform's logo, 'eBdesk', is visible in the bottom right corner of the main interface.

Core Architecture

The system uses a three-tier design: first, data is processed and standardised; next, AI algorithms analyse it to detect patterns; and finally, results are displayed through an interactive dashboard making financial management clear, engaging, and easy to use.



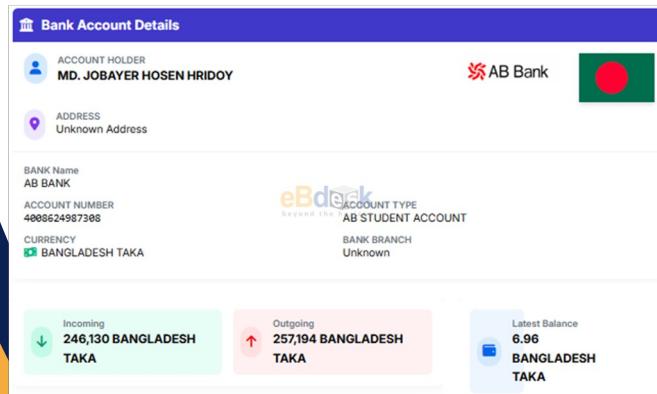
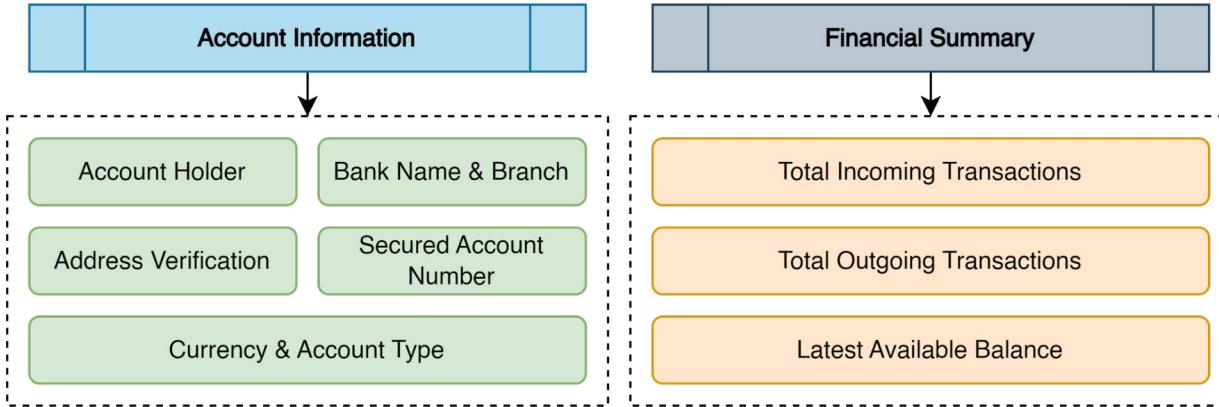


AI-powered banking brings multiple accounts into one streamlined dashboard. Users can view account details such as bank name, holder, currency, and source in a single interface. With real-time synchronisation across institutions and instant access to account data, financial management becomes faster, clearer, and more efficient.

BANK	HOLDER NAME	ADDRESS	CURRENCY	SOURCE	ACTION
AB Bank	MD. JOBAYER HOSEN HRIDOV		BANGLADESH TAKA	bank_statement_01	View Details
AmBank Group	ENCIK MUHAMMAD NAQIB DANIAL HAZIQ BIN MOHD	FELDA LEPAR UTARA 1 BANDAR JENKA 26400 PAHANG DARUL MAKMUR	MYR	ambank_statement	View Details
AXIS BANK	SANTHOSH J	KU INDUSTRIES PRIVATE LIMITED, UNIT-8 8 F NO 473, 474, 466, 468, SENTHAMARAYAN ROAD, PG PUDUR PO, SS KULAM VIA.	INR	bank_statement_83	View Details
AXIS BANK	ASIF SHAIKH	FLAT NO 207 2ND FLOOR KEMPS GREEN VIEW APARTMENT NTAYYAPANACARRORPP, SRIKRISHNA COMMUNITY HALL BENGALURU KARNATAKA-INDIA 560036	INR	bank_statement_69	View Details
Bank Asia	KHANDAKAR OLIUR RAHMAN OLI	Ward No 09, Monrepur, Kulaura, Kulaura Moulibazar.	BDT - BANGLADESH TAKA	bank_statement_22	View Details
BAN ^Q ISLAM	PUAN NURUL HAYAT BINTI ABD JALAL	NO 593 JLN PULAI JAYA 30, BANDAR PULAI JAYA, 81110 JOHOR BAHRU	MYR	bank_islam_statement_2	View Details
BAN ^Q ISLAM	ENCIK MOHAMAD HAIRUDIN BIN HASHIM	215 KAMPONG SUNGAI BUAYA 85019 RAWANG	MYR	bank_islam_statement_4	View Details
BAN ^Q ISLAM	ENCIK MOHAMAD HAKIM BIN ABD RAHMAN	NO 50 JALAN IMAM KAMPUNG GUDANG GARAM 85000 SEGAMAT	MYR	bank_islam_statement	View Details
BAN ^Q ISLAM	Mr. Ciaran Paul O Connell	16-18 Wild Goose Drive, London, SE14 8LL	GBP	hsbc_bank_statement	View Details

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Unified Access



Secure Snapshot

AI provides a secure and complete view of each bank account. Verified details such as holder name, bank branch, currency, and account type are paired with a clear financial summary of inflows, outflows, and current balance. By consolidating essential information in one place, AI simplifies financial tracking and supports confident decision-making.



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End-of-Day Balance Tracking

Daily balance trend visualization

Average balance calculation

Minimum / maximum balance alerts

Predictive Balance Analysis

Balance forecasting using historical patterns

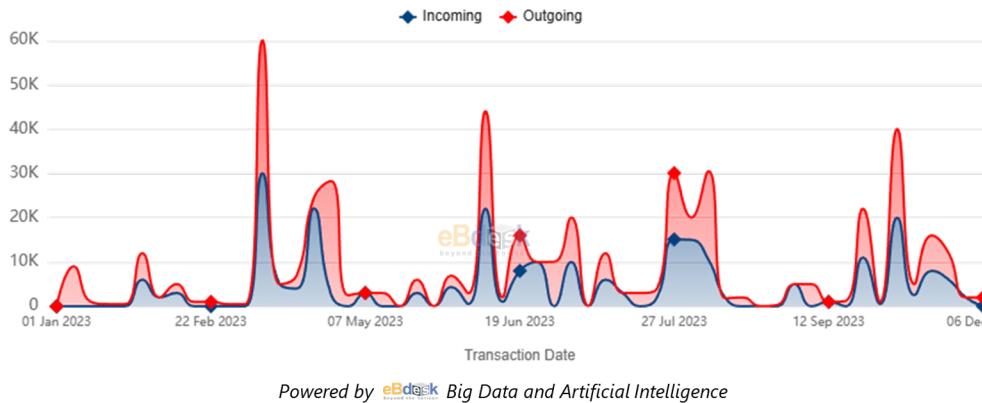
Low-balance early warnings

Optimal balance maintenance suggestions

Balance Intelligence

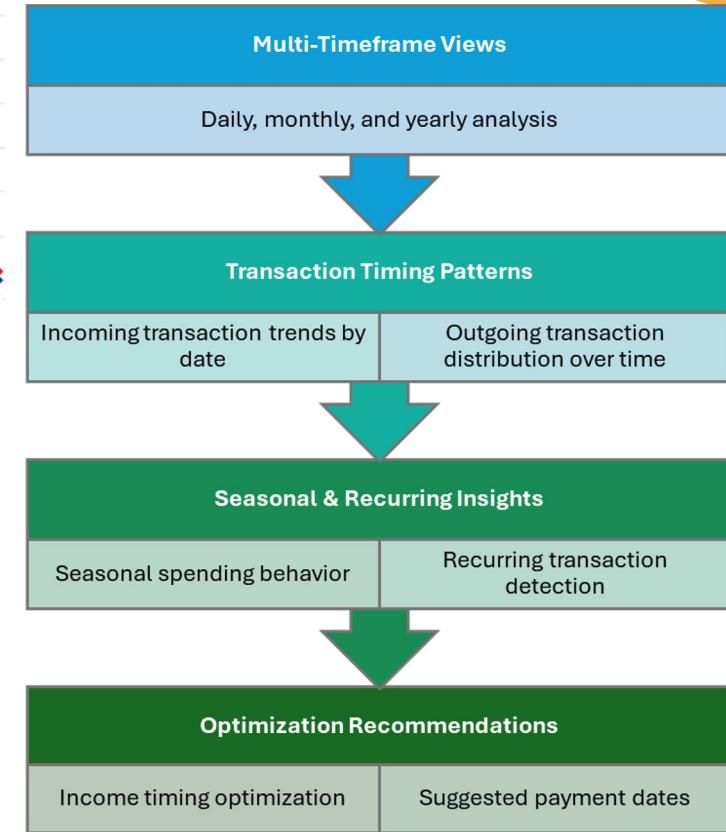
AI continuously monitors account balances by analysing daily trends and historical patterns. It delivers predictive alerts and smart recommendations helping users avoid low balances, forecast future outcomes, and maintain financial stability with confidence.



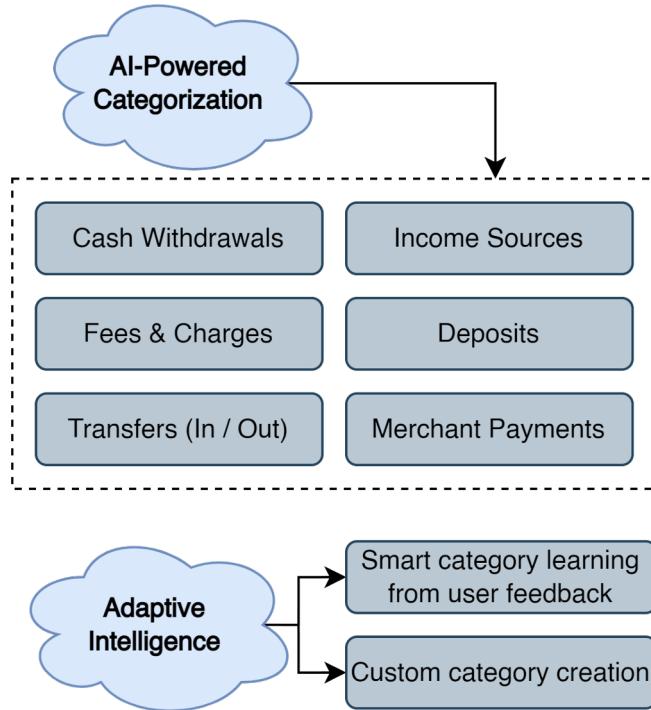


Timing Insight

AI analyses financial activity across daily, monthly, and yearly views to uncover transaction patterns, seasonal trends, and recurring behaviours. These insights help users plan better, optimize cash flow, and schedule payments more effectively.



Smart Categorization

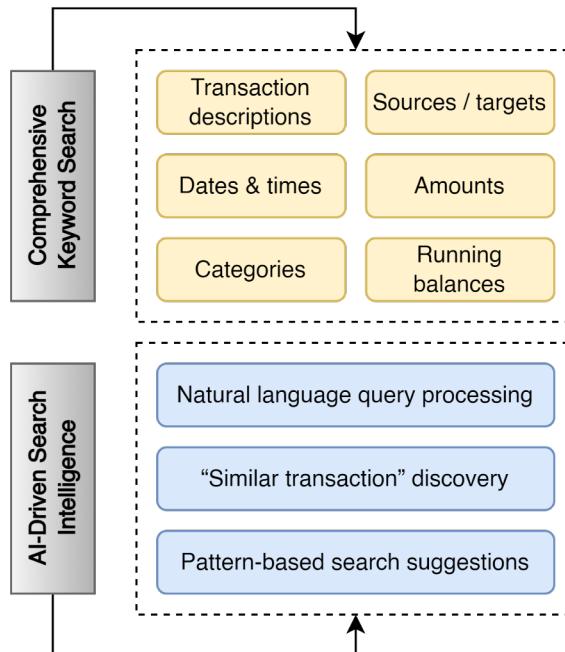


AI automatically organises financial transactions into clear, meaningful categories such as income, fees, transfers, and payments. With adaptive learning from user feedback and support for custom categories, it continuously improves accuracy and delivers more relevant financial insights.



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Search Intelligence



AI enhances transaction history search with smart filters and natural language understanding. Users can quickly find relevant entries by description, amount, date, or category and discover hidden patterns through intelligent suggestions and similarity detection. This makes financial tracking faster, clearer, and more insightful.

T...	Description	Dateli...	Category	Source/Target	N...	Amount	Balance
↑	Inward EFT Received, Pif-TRF-LR	01-01-2023	Income	To: MD. JOBAYER HOSEN HRIDOV		BANGLADESH TAKA 0	BANGLADESH TAKA 11,070.79
↑	Top up(B), 14008 TOP 01580386349	04-01-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -9,020	BANGLADESH TAKA 2,050.79
↑	NPSB ATM Cash Withdrawl, 516924 11132425 301408516924 080915, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	15-01-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -1,000	BANGLADESH TAKA 1,050.79
↑	NPSB ATM Cash Withdrawl, 520765 11132425 302907520765 072056, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	29-01-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -500	BANGLADESH TAKA 550.79
↑	NPSB ATM Cash Withdrawl, 609424 11130257 303007609424 072913, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	30-01-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -500	BANGLADESH TAKA 50.79
↓	Inward EFT Received, Pif-TRF-LR	05-02-2023	Income	From:		BANGLADESH TAKA 6,000	BANGLADESH TAKA 6,050.79
↑	NPSB ATM Cash Withdrawl, 523242 11132425 303612523242 124846, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	05-02-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -10,000	BANGLADESH TAKA 50.79
↓	Inward EFT Received, Pif-TRF-LR	07-02-2023	Income	From:		BANGLADESH TAKA 2,000	BANGLADESH TAKA 2,050.79
↑	NPSB ATM Cash Withdrawl, 618843 11130257 305008618843 080139, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	19-02-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -2,000	BANGLADESH TAKA 50.79
↓	Inward EFT Received, Pif-TRF-LR	19-02-2023	Income	From:		BANGLADESH TAKA 3,000	BANGLADESH TAKA 3,050.79
↑	NPSB ATM Cash Withdrawl, 530048 11132425 305107530048 072019, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	20-02-2023	Cash Withdrawal	To: AB Bank		BANGLADESH TAKA -1,000	BANGLADESH TAKA 2,050.79

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Income Insights



Top Receiver Tracking

- Source identification (employer, client, etc.)
- Transaction frequency and amount consistency
- Income timing patterns



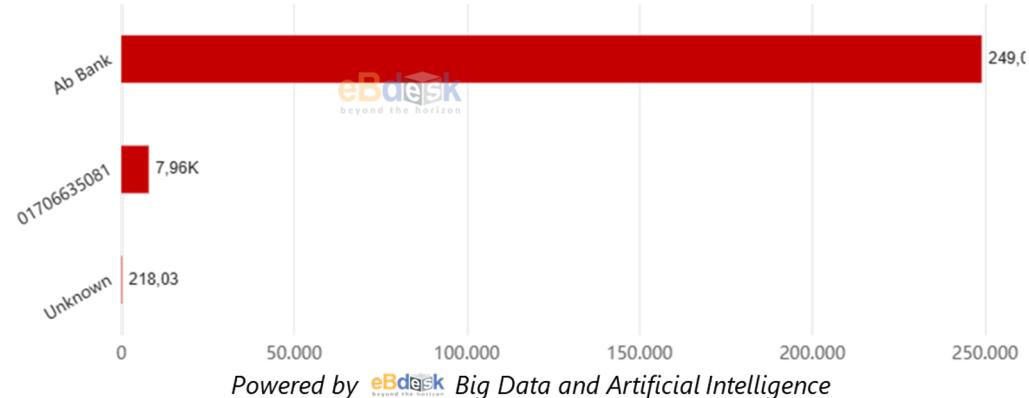
Income Quality Assessment

- Reliability scoring of income sources
- Income diversification analysis



Predictive Insights

- Expected income projection



AI helps to track top income sources by analysing consistency, timing, and reliability. It helps assess diversification and projects future earnings giving users a clearer view of income patterns for smarter financial planning.

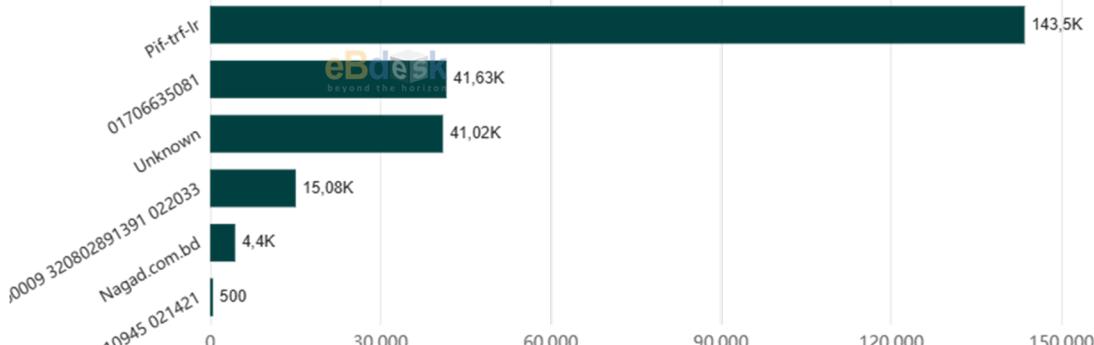
Top Sender Identification

- Regular payment destinations
- Amount distribution
- Transaction frequency analysis

Spending Intelligence

- Cost optimization opportunities
- Subscription and recurring payment management
- Bulk payment analysis

Cost Control



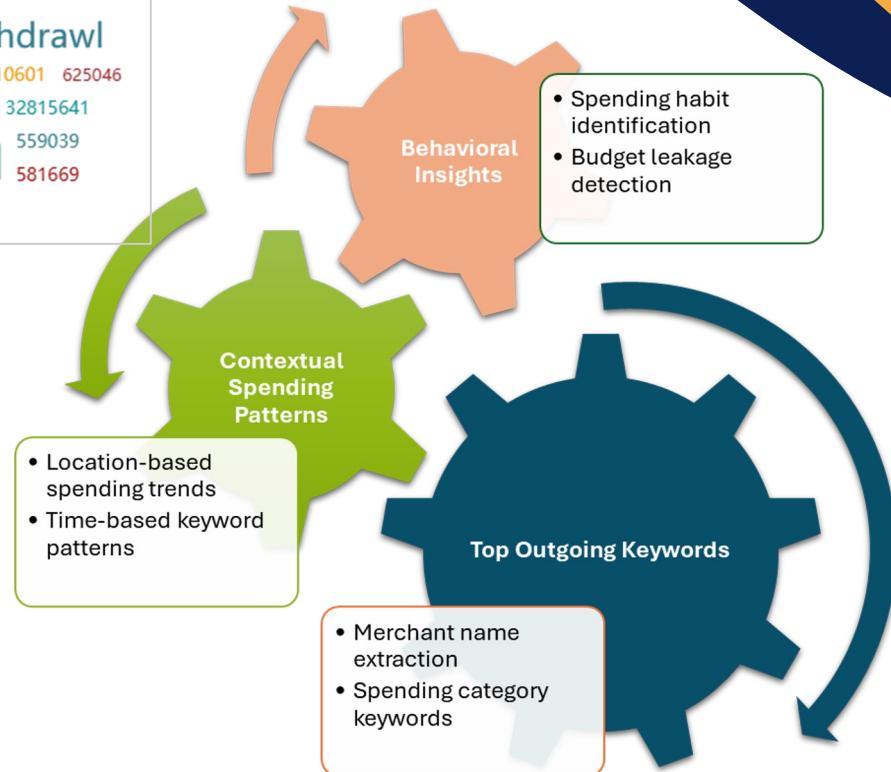
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AI identifies top spending destinations by analysing transaction frequency and amounts. It reveals patterns in recurring and bulk payments, helping users manage subscriptions, reduce unnecessary costs, and make smarter financial decisions.



Behavioural Mapping

AI analyses outgoing transactions by extracting keywords related to merchants, categories, locations, and timing. This reveals spending habits, uncovers budget leaks, and supports smarter financial control through pattern-based insights.



Top Incoming Keywords

- Payer identification
- Income type classification

Income Patterns & Trends

- Regularity of payments
- Source categorization

Predictive Insights

- Irregular income detection
- Income stream optimization

AI analyses incoming transactions by identifying payers, classifying income types, and detecting timing patterns. These insights can **support law enforcement** in uncovering irregularities, tracing suspicious income flows, and profiling financial behaviour for investigative purposes.



320802891391 021421 510945
174867 50400009 transfer 111516 022033891391 dhaka 132143
132221 pos mfs 327597
518684 deposit money.com
visa profit nagad 4008624987308 01706635081
314211174867 327402510945 314313327597

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Source Analysis

Top Incoming Transaction	
 Inward EFT Received, PIF-TRF-LR	BANGLADESH TAKA 30,000 Balance: BANGLADESH TAKA 30,050.79
• From: 28-02-2023 	
 Inward EFT Received, PIF-TRF-LR	BANGLADESH TAKA 22,000 Balance: BANGLADESH TAKA 25,650.79
• From: PIF-TRF-LR 27-04-2023 	
 Inward EFT Received, PIF-TRF-LR	BANGLADESH TAKA 22,000 Balance: BANGLADESH TAKA 22,084.79
• From: PIF-TRF-LR 29-05-2023 	
Top Outgoing Transaction	
 NPSB ATM Cash Withdr. 559039 11132425 31181559039 110601, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	BANGLADESH TAKA -20,000 Balance: BANGLADESH TAKA 5,790.79
• To: AB Bank 30-04-2023 	
 NPSB ATM Cash Withdr. 581669 32815641 327605581669 051225, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	BANGLADESH TAKA -20,000 Balance: BANGLADESH TAKA 6.98
• To: AB Bank 03-10-2023 	
 NPSB ATM Cash Withdr. 649002 11132424 321809649002 092809, Cash Withdrawl NPSB, DUTCH-BANGLA BANK LTD. NARAYANGAN, JBD	BANGLADESH TAKA -20,000 Balance: BANGLADESH TAKA 696.98
• To: AB Bank 06-08-2023 	

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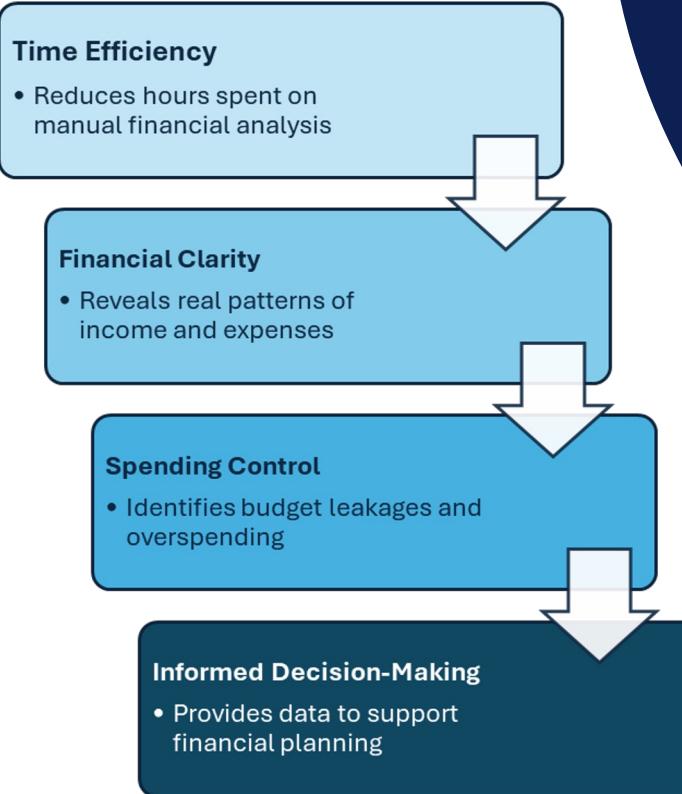
Transaction Investigation



AI highlights significant income and expense transactions by analysing frequency, source reliability, and spending patterns. These insights are designed to assist **law enforcement** in detecting irregularities, tracing illicit financial flows, and uncovering suspicious activities for stronger investigative outcomes.

Insight Benefit

The platform streamlines financial analysis by automating statement reviews, saving valuable time, and delivering clear visibility into income and expenses. It highlights overspending patterns and irregularities empowering **users to plan smarter** and enabling **law enforcement to detect suspicious financial activity** with greater efficiency.



Thank You

