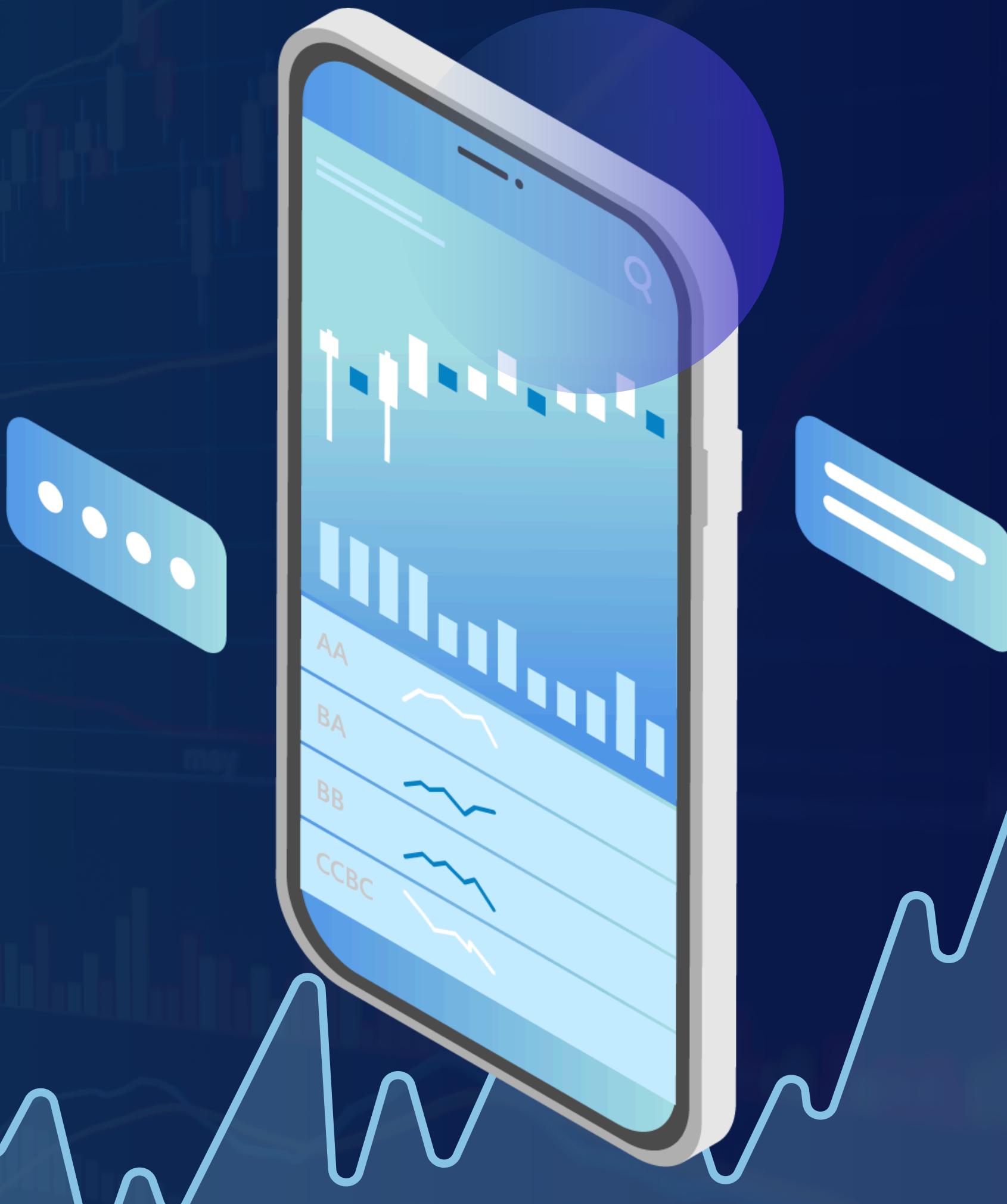




# ExpenseIQ

Empowering Users to Make Smarter  
Financial Decisions

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# Introduction

In today's digital age, managing money remains a challenge with issues like overspending and poor budgeting. ExpenselQ tackles this with AI-powered features that:

- Auto-track and categorize expenses
- Give personalized spending insights
- Support goal-based budgeting
- Suggest savings and investments
- Provide real-time alerts and dashboards





# Problem Statement

Managing finances is still difficult for many, especially young adults and professionals. Most apps fail due to:

- Generic, non-personalized solutions
- Manual data entry hassles
- No predictive insights or smart advice
- Poor budget control and tracking
- Security risks with sensitive data

A smarter, secure, and AI-driven tool is needed to provide personalized, data-backed financial guidance.



# Objectives

ExpenseIQ aims to empower users with smart, proactive tools for efficient financial management by combining tracking, budgeting, and AI-driven insights in one platform:

- Smart expense tracking with auto/manual categorization
- Easy, personalized budget planning with real-time alerts
- ML-powered insights and spending forecasts
- Saving and investment suggestions tailored to user goals
- Clear, visual dashboards for financial clarity





# Related Work

To build a truly effective solution, it's important to address gaps in existing finance tools:

- Mint: Good for syncing and tracking, but lacks personalization and predictions
- YNAB: Focuses on goals but is complex and lacks AI
- PocketGuard: Simple and clear, but limited in planning and visuals
- Excel/Sheets: Customizable, but manual and lacks smart features

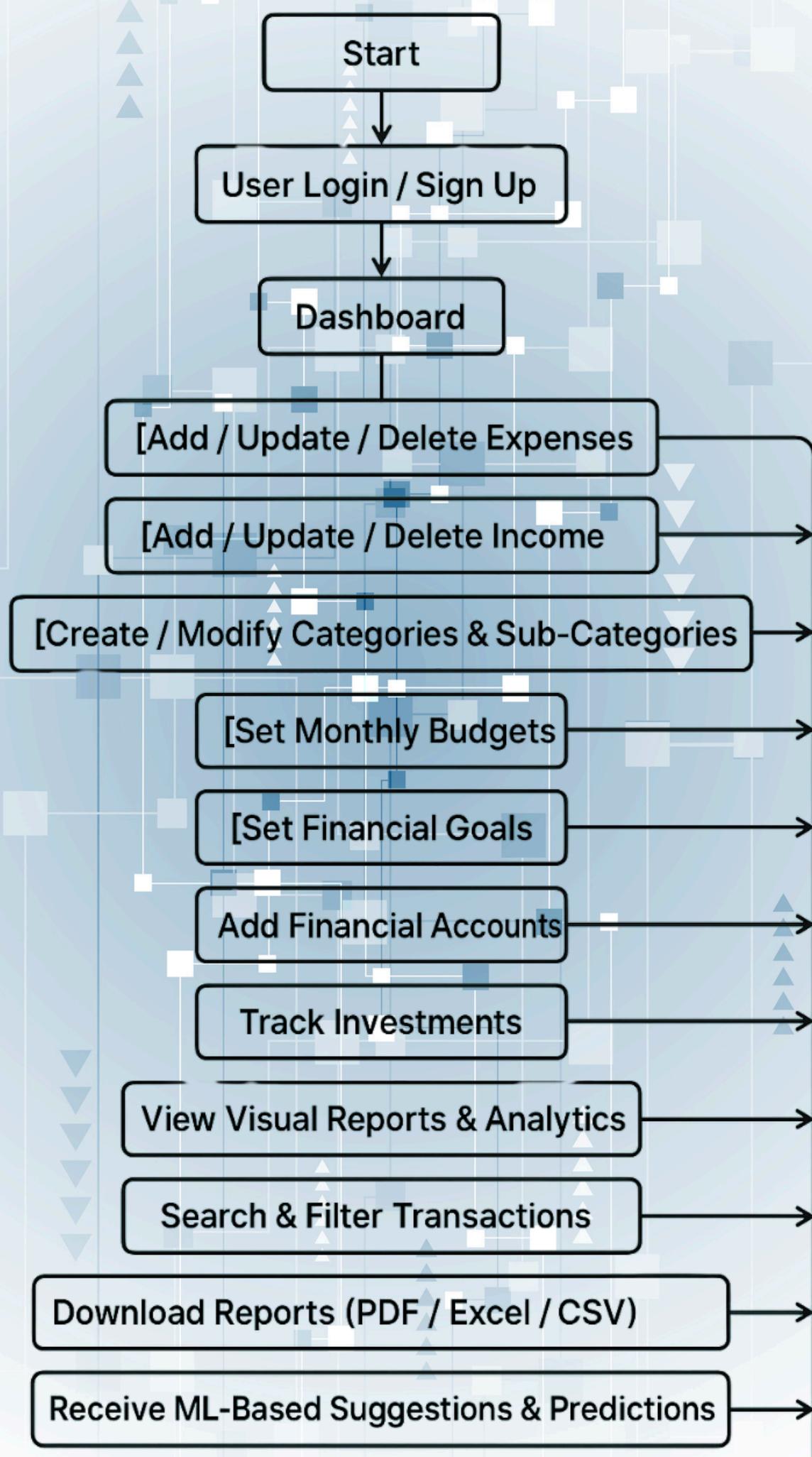
ExpenseIQ fills these gaps with automation, intelligence, and personalization for smarter money management.





# 📈 Features

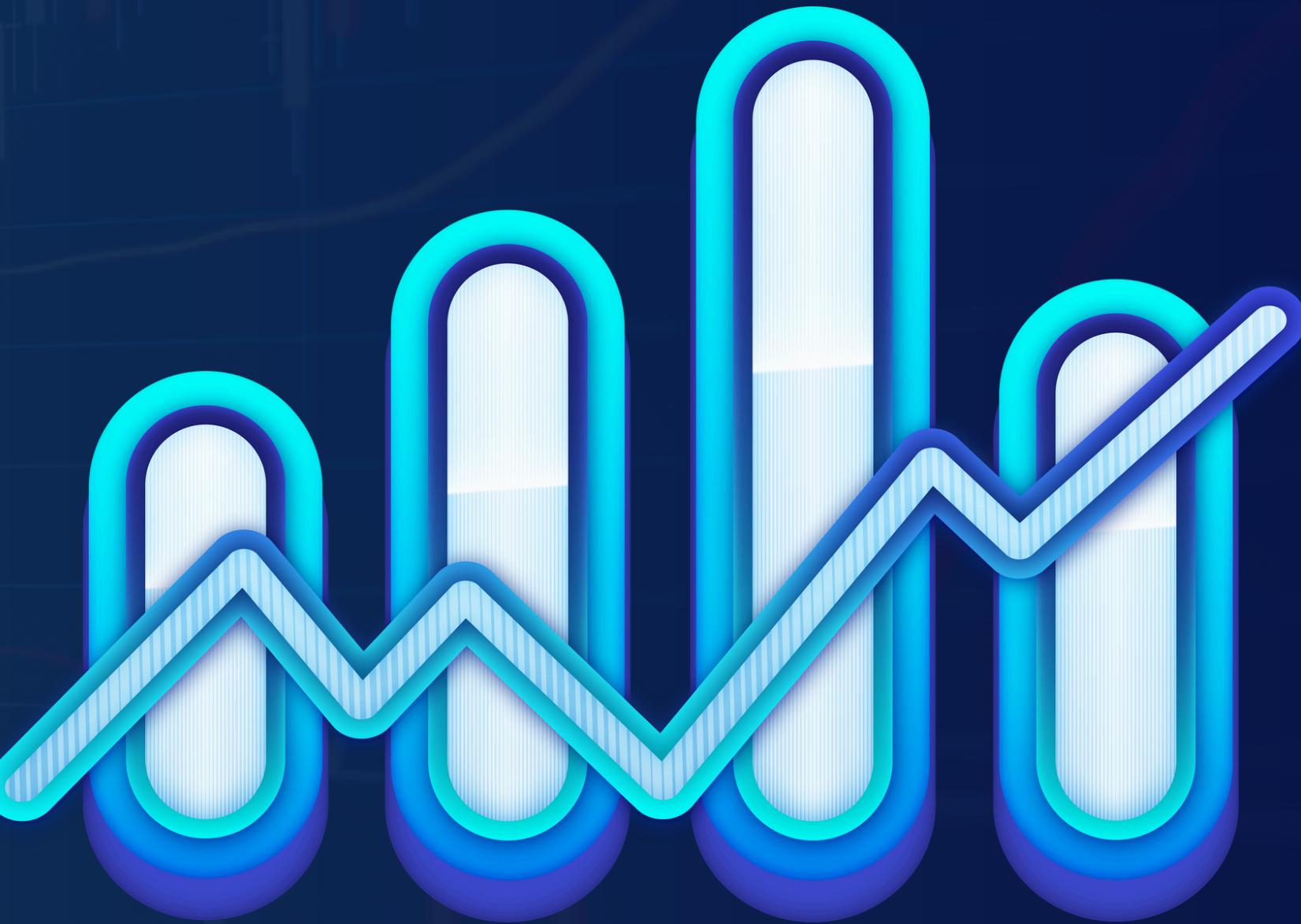
- Manage income and expenses effortlessly
- Categorize transactions with custom categories and sub-categories
- Set financial goals and monthly budgets
- Link and track multiple accounts and investments
- Generate reports in PDF, Excel, or CSV
- Access AI-powered insights, alerts, and forecasts
- Visualize spending with charts and graphs
- Filter and search transactions easily
- Get reminders for bills and goal deadlines



# Methodology

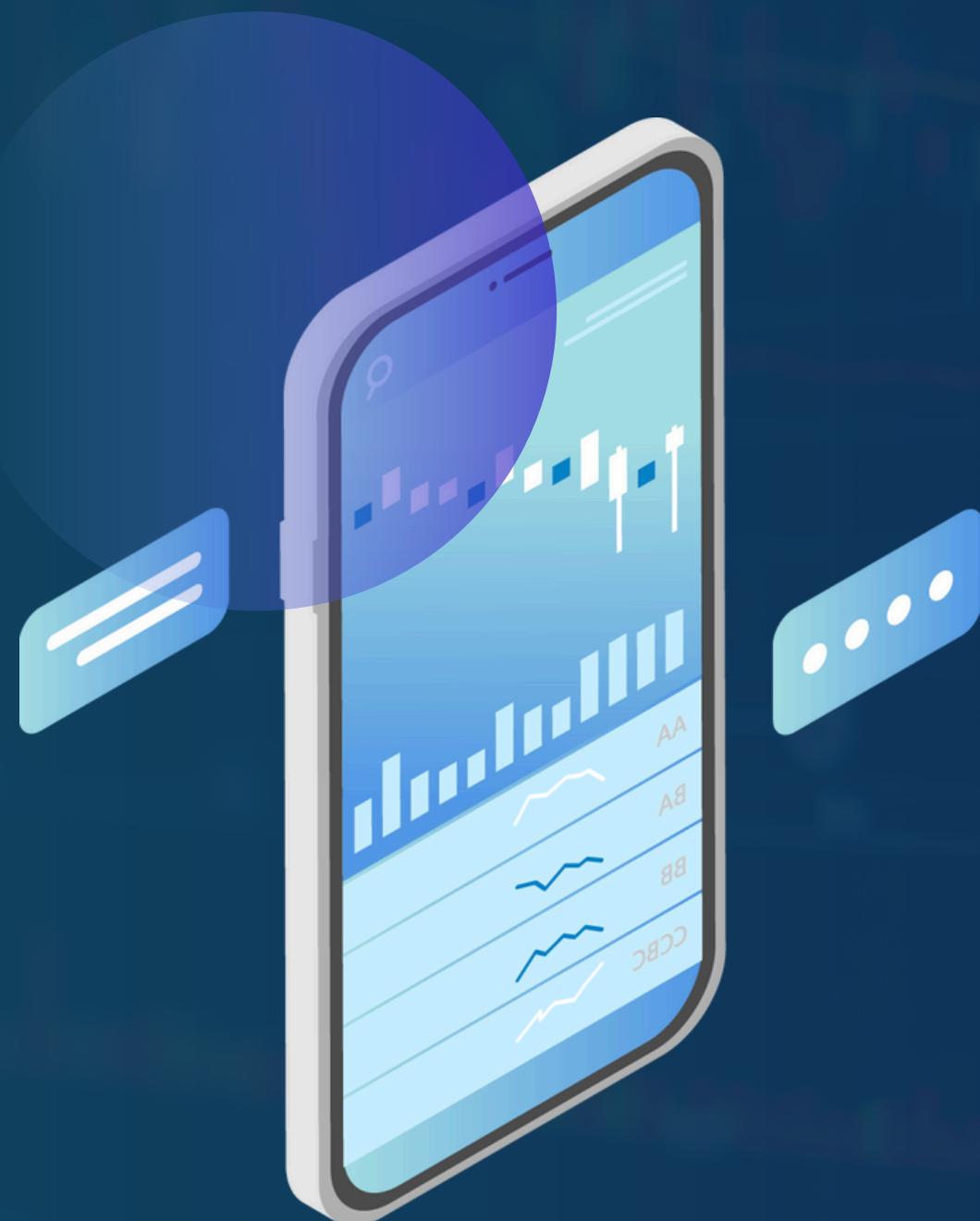
ExpenselQ was developed using an agile, modular approach focused on usability, intelligence, and security:

- Tech Stack:  
Frontend – HTML, CSS, JavaScript  
Backend – Spring Boot (REST APIs)  
Database – MySQL/PostgreSQL
- Workflow:  
Agile development with Git-based version control
- Machine Learning:  
Predicts expenses, suggests savings, and analyzes spending patterns
- Testing & Deployment:  
Manual UI/backend testing and Docker deployment for scalability





# Results



ExpenseIQ has shown strong performance across key areas

:

- Expense Tracking: Simplified categorization and reduced manual entry with bank imports
- Budgeting & Alerts: Personalized budgets and timely notifications keep users on track
- ML Insights: Delivers accurate predictions and smart financial advice
- User Engagement: Dashboards and insights improve decision-making
- System Performance: Scalable, reliable, and smooth across all devices





# Challenges



Despite its success, ExpenseIQ faced several development and deployment challenges:

- Data Integration: Handling varied formats and ensuring accurate bank API syncing
- User Adoption: Building trust in AI and overcoming reluctance toward auto-tracking
- ML Optimization: Balancing personalized insights with broad applicability
- Security: Protecting sensitive data and complying with privacy standards
- Device Performance: Ensuring smooth functionality on low-end devices

# Conclusion



ExpenseIQ is a smart personal finance tool that blends tracking, AI insights, and security for effective budgeting and planning.

## Key Points:

Personalized tracking, budgeting, and savings  
Predictive insights using machine learning  
Strong data security with encryption and MFA  
Scalable for future integrations and features

## Future Scope:

- Enhance investment advice with advanced ML
- Add more third-party API integrations for better compatibility



Thank  
You!