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Research

Rethinking Soft Skills for Business Analytics in the Predictive Financial World

Faluyi, Taiwo Rasheed

Ogun State Institute of Technology, Igbesa. Ogun State, Nigeria.

Correspondence should be addressed to: tayekoyin@yahoo.com

Abstract: The aggressive dependence on predictive analytics, a crucial tool for transforming financial decision-making, compels an essential balance between technical expertise and human soft skills, including critical thinking, emotional intelligence, ethical judgment, and communication. Existing research recognizes the significance of soft skills in data science and business analytics, but lacks a specific focus on the financial sector. This study aims to bridge that gap by exploring how soft skills enhance predictive financial analytics, ensuring ethical, transparent, and effective decision-making in the financial world. The research objectives are to identify key soft skills for financial analysts, examine their impact on financial decision-making and risk assessment, and project a structural framework for their development and incorporation with technical expertise to reduce risks. The study proposes a mixed-methods approach, combining qualitative data from interviews and focus groups with quantitative analysis from surveys and behavioral experiments. Data will be analyzed using Statistical Correlation, Regression Analysis, and Machine Learning Models. This research is expected to deliver an empirical framework linking soft skills to predictive financial decision-making, providing insights into how adaptability, communication, and intuition impact forecasting accuracy, and offering strategies for developing well-rounded financial analysts in an AI-driven world.

Keywords: Soft Skills, Predictive Analytics, Financial Decision-Making, Business Analytics, Emotional Intelligence.

Introduction

Predictive analytics is a driving force that has become a propelling tool in transforming financial decision-making, capacitating firms to predict market trends, evaluate risks, and optimise investment. In essence, the aggressive dependence on

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predictive analytics in the financial world compelled a balance between soft skills and technical expertise (James, 2022).

In traditional business analytics, there is more concentration on data-driven decision-making. These traditional business analytics involve technical skills such as data visualisation, statistical modelling, and machine learning. Soft skills include critical thinking, emotional intelligence, ethical judgment, and communication.

Soft skills, commonly referred to as people skills or interpersonal skills, are traditionally seen as relevant to industries like hospitality, education, and social work (Jiri, 2023). However, that is not the case anymore. Today, a growing body of research suggests that soft skills are more valuable than ever in the labour market, and the finance industry is no exception. Soft skills are an umbrella term used to describe any non-technical skills used in the workplace (Jason & Xuemei, 2021). These skills are often difficult to measure but are nonetheless critical for a candidate's long-term success. The financial sector, like most other industries, is facing changes in the digital age. In response to those changes, major financial companies are increasingly seeking job candidates with soft skills instead of just technical or cognitive skills.

One driving factor behind the importance of soft skills in finance is an increasing demand for great customer service. Thanks to new technology and disruptive business models, customers' expectations have changed; fast, responsive, and personalised customer service is now the norm. Even if that service is machine-driven, soft skills like emotional intelligence and cultural awareness are necessary to create programmes that meet everyday customers' needs.

Shifting demographics in the finance industry have also increased the demand for soft skills. Younger employees have different expectations for their learning and training experiences than their predecessors.

Some studies show that training models based on soft skills, instead of just technical training, help to improve employee performance and retention. In other words, investing in soft skills can help companies create more dynamic, successful workplaces.

The aim of this proposal is to bridge the gap by exploring how soft skills enhance predictive financial analytics, ensuring ethical, transparent, and effective decision-making in the financial world.

Research Objectives

1. To identify key soft skills that are essential for predictive financial analysts.

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2. To examine the impact of soft skills on financial decision-making and risk assessment.

3. To project a structural framework for developing and training soft skills in financial analytics.

4. To examine how business enterprises can incorporate soft skills with technical expertise to boost decision-making and reduce risks.

Significance of the Study

Few studies explicitly explore the intersection of soft skills and predictive finance. Recent discussions in financial ethics emphasise the need for qualitative decision-making alongside algorithmic insights. To develop a guideline for business schools and training institutes to develop and mould well-rounded financial analysts who excel in both technical and interpersonal skills, insights into how adaptability, communication, and intuition impact forecasting accuracy in a predictive financial world are necessary.

Literature Review

Existing research postulates the significance of soft skills in data science with respect to business analytics, but lacks a financial focus. Previous studies have indicated the importance of communication, adaptability, and leadership in data science and analytics. Emotional intelligence is increasingly recognised as critical for interpreting uncertainty in data and making ethical decisions. Predictive analytics has been largely adopted for fraud detection, risk assessment, and portfolio management. As such, technical skills are predominantly about training; it is on this note that the research suggests that judgment and contextual understanding improve modal effectiveness.

In the rapidly evolving financial industry, predictive analytics and artificial intelligence (AI) are transforming decision-making. However, beyond technical expertise, soft skills play a crucial role in ensuring the effectiveness of financial forecasting, risk management, and strategic planning. This literature review explores the relevance of soft skills such as communication, emotional intelligence, adaptability, and critical thinking in the predictive financial world.

Soft skills complement hard analytical skills in financial prediction by enhancing human interpretation, collaboration, and ethical considerations. According to Anna K. T. (2020), financial professionals must balance data-driven insights with interpersonal skills to make informed decisions and manage uncertainty.

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Communication Skills: Effective communication enables financial analysts to convey complex predictions to stakeholders in an understandable way (Xuemei, 2021).

Critical thinking: Decision-making in financial forecasting requires evaluating multiple scenarios and questioning the validity of predictive models (Slezak, 2023).

Emotional Intelligence (EI): High EI improves responses to market volatility, helping finance professionals manage stress and make rational decisions (James, T., 2022).

With AI-driven models playing an increasing role in financial predictions, adaptability is a critical soft skill. Research by Saihu and Rhian (2022) highlights that professionals who embrace emerging technologies and continuously learn are more effective in predictive financial environments.

Human-AI Collaboration: Financial experts must work alongside AI tools, interpreting and validating model outputs while mitigating biases (Robbya et al., 2023).

Ethical Judgment: AI-driven financial predictions raise ethical concerns, requiring professionals to apply moral reasoning and regulatory compliance (James, 2022).

The predictive financial world relies on cross-functional teams where leadership and collaboration are vital. As noted by Sabreya (2021), financial leaders must integrate technical expertise with people management to drive data-driven strategies effectively.

Team Coordination: Working with data scientists, economists, and business strategists requires strong collaboration skills (Lorena et al., 2023).

Persuasion and Influence: Financial professionals need to justify predictive insights and influence decision-makers, reinforcing the importance of negotiation and persuasion skills (Arma et al., 2020).

Sabreya (2021) stated that the Bangladesh Institute of Accountants (MIA) demanded a six-month industrial training programme for accounting students and that training programmes have been offered by any university in Bangladesh since 2012. It was also noted in various literature that no priority has been given to the development of soft skills among students. This study was conducted to examine the perceptions of accounting students on the benefits gained from industrial soft skill training programmes. Moreover, the basic purpose of the study was to evaluate the advantages gained from the soft skill training provided by the industries.

Few studies expressly investigate the intersection of soft skills and predictive finance. In essence, financial ethics stresses the need for qualitative decision-making alongside algorithmic insights.

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Research Methodology

A study on soft skills in predictive finance requires a structured research methodology. Below is a comprehensive approach:

1. Research Design

A mixed-methods approach is ideal, combining qualitative insights (e.g., expert opinions, case studies) with quantitative analysis (e.g., statistical modelling, surveys).

Exploratory Research: Identify key soft skills relevant to predictive finance (e.g., adaptability, critical thinking, emotional intelligence).

Descriptive research: Assess how these skills influence financial decision-making.

Causal research: Examine relationships between soft skills and financial forecasting performance.

Data Collection Methods

A. Primary Data Collection

1. Surveys and Questionnaires

Target: Financial analysts, traders, portfolio managers, fintech professionals.

Content: Measure self-reported soft skills, decision-making effectiveness, and accuracy in financial predictions.

2. Interviews and Focus Groups

Conduct semi-structured interviews with finance professionals to understand the role of soft skills in decision-making.

Use thematic analysis to extract key insights.

3. Experiments and Behavioural Studies

Simulated trading environments to assess decision-making with or without soft skills training.

Measure performance differences.

B. Secondary Data Collection

1. Financial Reports and Performance Data

Analyse historical investment/trading decisions and their outcomes.

Correlate with qualitative assessments of decision-makers' soft skills.

2. Academic and Industry Literature Review

Study previous research on behavioural finance and decision-making psychology.

3. Data Analysis Techniques

A. Qualitative Analysis

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Thematic Analysis: Identify patterns from interviews and focus groups.

Sentiment Analysis: Examine emotions in financial decision-making (e.g., earnings call transcripts).

B. Quantitative Analysis

Statistical Correlation: Test relationships between soft skills and financial forecasting accuracy.

Regression Analysis: Predict financial performance based on soft skill indicators.

Machine Learning Models: Train models to assess how soft skills influence market predictions.

Validation and Reliability

Triangulation: Compare results from different data sources (interviews, experiments, surveys).

Pilot Testing: Run small-scale studies before full implementation.

Expert Review: Validate findings with industry professionals.

Ethical Considerations

This research will provide:

A new framework for integrating soft skills into predictive analytics education and corporate training. Empirical framework on the impact of soft skills on financial decision-making. Recommendations for financial organisations on building a balanced approach to analytics. A guideline for business schools and training institutes to develop well-rounded financial analysts who excel in both technical and interpersonal skills. Ensure participant confidentiality and consent. Avoid bias in surveys and interviews. Follow GDPR compliance for financial data usage.

Expected Outcomes

- A framework linking soft skills to predictive financial decision making.
- Insights into how adaptability, communication, and intuition impact forecasting accuracy.
- Strategies for developing soft skills training programmes in finance.

Conclusion

As predictive analytics become more advanced, the need for human judgment, ethical reasoning, and effective communication grows. As predictive analytics continue to shape the financial world, the role of soft skills must be redefined.

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Soft skills are indispensable in predictive finance, ensuring that technical insights are applied effectively within organisations. Communication, adaptability, emotional intelligence, and leadership bridge the gap between complex financial models and practical decision-making. Future research should explore how training programmes can integrate soft skills development alongside financial and data analytics education.

However, this research will provide a roadmap for integrating soft skills into business analytics, ensuring that financial experts can navigate the complexities of an AI-driven world with confidence.

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