Data Integration and Pipeline Development Consultant

Post of duty: Washington, D.C. - USA

The IDB Group is a community of diverse, versatile, and passionate people who come together on a journey to improve lives in Latin America and the Caribbean (LAC). Our people find purpose and do what they love in an inclusive, collaborative, agile, and rewarding environment.

About this position

The Fiscal Management Division (IFD/FMM) is looking for a professional with experience in econometrics and data science to consolidate data base to power FISLAC Al-Insights. In this role you will support the Fiscal Management Division (IFD/FMM) on developing Al-powered virtual assistant for the Fiscal Sustainability for Latin America and the Caribbean Countries (FISLAC) by ensuring that the Al-assistant has comprehensive, real-time access to reliable and harmonized fiscal data by streamlining the integration of multiple data sources.

The Institutions for Development Sector (IFD) team is responsible for conceptualizing, preparing, supporting execution, and supervising Bank operations related to governance, public sector strengthening and reform, economic and fiscal issues, and capital market, financial institutions, and competitiveness development at the national, regional, and local levels. As an IDF Division, the Fiscal Management División (IFD/FMM) supports the governments of LAC to strengthen fiscal policy and management to promote economic growth and reduce inequality and poverty. To support the countries in this task, IFD/FMM finances projects to promote development through the following areas: (i) tax policy and administration; (ii) public spending policy and management; (iii) subnational fiscal policy and management; (iv) fiscal sustainability and macro-fiscal policy; and (v) fiscal transparency.

- First activity: Integrate fiscal data from multiple sources, including FISLAC's database, Latin Macro Watch, and other IDB tools. Evaluate the quality, format, and accessibility of each data source.
- Second activity: Ensure seamless data flow between different databases and the Alpowered virtual assistant by designing a data schema that accommodates the integration of various data sources.
- **Third activity:** Develop automated data pipelines to ensure real-time updates and access to reliable fiscal data.
- **Fourth activity:** Implement robust data processing and transformation workflows to maintain data integrity.
- **Fifth activity:** Implement validation checks to ensure data accuracy and reliability during the integration process. Conduct regular audits to verify data integrity.
- **Sixty activity:** Collaborate with cross-functional teams to ensure seamless integration of new FISLAC AI Insights. Facilitate effective communication and coordination among different stakeholders to achieve project goals.

- Deliverable 1. Document detailing the work plan and schedule of activities that will be developed during the consultancy, which will follow the objectives determined by the work team
- **Deliverable 2**. Document detailing the evaluation of fiscal data sources, including FISLAC's database, Latin Macro Watch, and other IDB tools. The report should cover the quality, format, accessibility, and recommendations for improving data integration.
- **Deliverable 3**. Document detailing the complete data schema blueprint that ensures seamless integration between different databases and the Al-powered virtual assistant. This documentation should highlight how various data sources are accommodated, along with flow diagrams and a detailed explanation of the schema's architecture.
- Deliverable 4. Document detailing the operational set of automated data pipelines that ensure real-time data updates and access to reliable fiscal data. Deliverable should include a description of the architecture, technologies used, and testing results demonstrating real-time capabilities.
- **Deliverable 5**. A document framework and system for conducting data validation checks, including audit procedures and methods for ensuring ongoing data accuracy and reliability. This should also include results from initial audits and a plan for periodic validation and data integrity checks.

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| Deliverable # | Percentage | Planned Date to Submit |
|---------------|------------|------------------------|
| 1 | 15% | January 2025 |
| 2 | 20% | February 2024 |
| 3 | 20% | Junio 2024 |
| 4 | 20% | September 2024 |
| 5 | 25% | November 2025 |

What you'll need

- Education: Bachelor's Degree in engineering, economics, mathematics or related.
- **Experience:** At least 4 years of professional experience in data management, econometric and macroeconomic modeling, macroeconomics, and fiscal policy issues.
- Language: English and Spanish.

Key skills:

- Learn continuously.
- Collaborate and share knowledge.
- Focus on clients.
- Communicate and influence.
- Innovate and try new things.

Requirements:

• Citizenship: You are a citizen of one of our 48-member countries.

Consanguinity: You have no family members (up to the fourth degree of consanguinity and second degree of affinity, including spouse) working at the IDB, IDB Invest, or IDB Lab.

Type of contract and duration:

- Type of contract: Products and External Services Consultant (PEC), Lump Sum.
- Length of contract: 12 months.

Our culture

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About the IDB Group

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About IDB

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Follow us:

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https://www.facebook.com/IADB.org

Data Validation and Harmonization Consultant

Post of duty: Washington, D.C. - USA

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About this position

The Fiscal Management Division (IFD/FMM) is looking for a professional with experience in econometrics and data science to improve technologies. In this role you will support the Fiscal Management Division (IFD/FMM) on developing Al-powered virtual assistant for the Fiscal Sustainability for Latin America and the Caribbean Countries (FISLAC) by ensuring the integrity, accuracy, and consistency of fiscal data across the Al assistant by implementing a comprehensive data quality management process.

The Institutions for Development Sector (IFD) team is responsible for conceptualizing, preparing, supporting execution, and supervising Bank operations related to governance, public sector strengthening and reform, economic and fiscal issues, and capital market, financial institutions, and competitiveness development at the national, regional, and local levels. As an IDF Division, the Fiscal Management División (IFD/FMM) supports the governments of LAC to strengthen fiscal policy and management to promote economic growth and reduce inequality and poverty. To support the countries in this task, IFD/FMM finances projects to promote development through the following areas: (i) tax policy and administration; (ii) public spending policy and management; (iii) subnational fiscal policy and management; (iv) fiscal sustainability and macro-fiscal policy; and (v) fiscal transparency.

- **First activity:** Conduct a comprehensive assessment of the existing fiscal data to identify inconsistencies, errors, and gaps. This activity involves developing a detailed report outlining the findings and providing recommendations for improving data quality, ensuring a solid foundation for subsequent validation and harmonization efforts.
- **Second activity:** Establish and implement robust validation protocols to ensure the accuracy and reliability of fiscal data. This includes creating automated validation scripts that regularly check data integrity and flag discrepancies, helping maintain high standards of data quality.
- Third activity: Develop a framework for harmonizing data from different sources to ensure
 consistency across the platform. This activity involves standardizing data formats and
 definitions, facilitating seamless integration and comparison of fiscal data from various
 sources.
- **Fourth activity:** Schedule and conduct regular data audits to verify the accuracy and completeness of the integrated data. Documenting audit findings and corrective actions taken to address any identified issues will help maintain the integrity and reliability of the fiscal data over time.

- **Fifth activity:** Organize training sessions and workshops for stakeholders on data validation and harmonization techniques. Providing guidelines and best practices will empower stakeholders to maintain high data quality standards and effectively contribute to the project's success.
- **Sixty activity:** Develop a continuous improvement plan to regularly update and refine data validation and harmonization processes. Implementing feedback mechanisms to incorporate stakeholder input will ensure the processes remain effective and adapt to evolving data needs.

- Deliverable 1. Document detailing the work plan and schedule of activities that will be developed during the consultancy, which will follow the objectives determined by the work team.
- **Deliverable 2**. Document detailing inconsistencies, errors, and gaps in the existing fiscal data. This report should include an analysis of the current data quality, recommendations for improvement, and a plan for addressing the identified issues to provide a strong foundation for further validation and harmonization efforts.
- **Deliverable 3**. Document including a set of robust validation protocols, including automated scripts designed to regularly check the accuracy, reliability, and integrity of fiscal data. This deliverable should also include documentation on how discrepancies are flagged and handled, as well as testing results demonstrating the system's effectiveness.
- **Deliverable 4**. Document detailing comprehensive framework for harmonizing fiscal data from multiple sources, including standardized formats and definitions. The framework should be designed to facilitate seamless integration and comparison of fiscal data, with clear guidelines for ensuring consistency across platforms.
- **Deliverable 5**. A document detailing he findings, including any identified issues and corrective actions taken. Additionally, a continuous improvement plan that outlines ongoing efforts to refine validation and harmonization processes, incorporating stakeholder feedback to adapt to evolving data needs.

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| 4 | 20% | September 2025 |
| 5 | 25% | November 2025 |

What you'll need

- Education: Bachelor's degree in engineering, economics, mathematics or related.
- **Experience:** At least 4 years of professional experience in data management, econometric and macroeconomic modeling, macroeconomics, and fiscal policy issues.
- Language: English and Spanish.

Key skills:

- Learn continuously.
- Collaborate and share knowledge.
- Focus on clients.
- Communicate and influence.
- Innovate and try new things.

Requirements:

Citizenship: You are a citizen of one of our 48-member countries.
 Consanguinity: You have no family members (up to the fourth degree of consanguinity and second degree of affinity, including spouse) working at the IDB, IDB Invest, or IDB Lab.

Type of contract and duration:

- Type of contract: Products and External Services Consultant (PEC), Lump Sum.
- Length of contract: 12 months.

Our culture

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About IDB

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HRD Terms of Reference

ANNEX A

achieving measurable results and the highest standards of integrity, transparency, and accountability.

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https://www.facebook.com/IADB.org

Development and Integration of Gen AI Systems Consultant

Post of duty: Washington, D.C. - USA

The IDB Group is a community of diverse, versatile, and passionate people who come together on a journey to improve lives in Latin America and the Caribbean (LAC). Our people find purpose and do what they love in an inclusive, collaborative, agile, and rewarding environment.

About this position

The Fiscal Management Division (IFD/FMM) is looking for a professional with experience in Al technologies. In this role you will support the Fiscal Management Division (IFD/FMM) on design, develop, and integrate Gen Al systems that provide advanced macro-fiscal insights by leveraging historical data and trends.

The Institutions for Development Sector (IFD) team is responsible for conceptualizing, preparing, supporting execution, and supervising Bank operations related to governance, public sector strengthening and reform, economic and fiscal issues, and capital market, financial institutions, and competitiveness development at the national, regional, and local levels. As an IDF Division, the Fiscal Management División (IFD/FMM) supports the governments of LAC to strengthen fiscal policy and management to promote economic growth and reduce inequality and poverty. To support the countries in this task, IFD/FMM finances projects to promote development through the following areas: (i) tax policy and administration; (ii) public spending policy and management; (iii) subnational fiscal policy and management; (iv) fiscal sustainability and macro-fiscal policy; and (v) fiscal transparency.

- **First activity:** Design and develop AI systems capable of analyzing macro-fiscal data, leveraging historical datasets, and generating actionable insights. This includes using advanced machine learning algorithms to process multi-dimensional fiscal data and assess trends for predictive analysis.
- Second activity: Integrate natural language processing (NLP) and Retrieval Augmented Generation (RAG) techniques into the AI system, enabling it to respond to user queries in plain language. This will ensure that policymakers can access insights seamlessly through conversational interactions.
- Third activity: Collect and preprocess relevant macro-fiscal data from various reliable sources, ensuring data is cleaned, normalized, and prepared for AI model training. The data should also be enriched with contextual information (e.g., economic shocks, global trends) to improve model accuracy.
- **Fourth activity:** Train the AI models to generate detailed, country-specific fiscal reports, including debt sustainability analysis, fiscal risk assessments, and other key macro-fiscal indicators. These reports should be generated in real-time and updated regularly as new data becomes available.
- **Fifth activity:** Conduct rigorous testing and validation of the AI models to ensure accuracy and reliability. This involves backtesting model outputs against historical data and assessing the system's ability to handle diverse fiscal conditions across multiple countries.

 Sixty activity: Organize training sessions and develop user guides for policymakers and stakeholders, focusing on how to effectively interact with the AI system. This includes instruction on how to submit queries, interpret fiscal briefings, and utilize the system for decision-making.

Deliverables and Payments Timeline:

- Deliverable 1. Document detailing the work plan and schedule of activities that will be
 developed during the consultancy, which will follow the objectives determined by the work
 team.
- Deliverable 2. Document detailing, he design, development, and integration of the AI system, including detailed explanations of the model architecture, NLP capabilities, and RAG implementation.
- Deliverable 3. Document outlining the historical data collection, cleaning, and preprocessing
 efforts, including sources, data enrichment processes, and quality checks performed to
 ensure data readiness for AI model training.
- **Deliverable 4**. Document detailing the integration of Natural Language Processing and Retrieval Augmented Generation capabilities within the AI system, including use cases and testing results demonstrating their effectiveness in enabling user-friendly interaction.
- Deliverable 5. A document presenting A report outlining the validation and testing process for the AI models, NLP system, and RAG functionalities, including performance metrics, back testing results, and recommendations for future improvements.

| Deliverable # | <u>Percentage</u> | Planned Date to Submit |
|---------------|-------------------|------------------------|
| 1 | 15% | Junio 2025 |
| 2 | 20% | September 2025 |
| 3 | 20% | November 2025 |
| 4 | 20% | February 2026 |
| 5 | 25% | May 2026 |

What you'll need

- Education: Bachelor's Degree in engineering, economics, mathematics or related.
- **Experience:** At least 4 years of professional experience in data management, econometric and macroeconomic modeling, macroeconomics, and fiscal policy issues.
- Language: English and Spanish.

Key skills:

- Learn continuously.
- Collaborate and share knowledge.
- Focus on clients.
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Requirements:

• Citizenship: You are a citizen of one of our 48-member countries.

Consanguinity: You have no family members (up to the fourth degree of consanguinity and second degree of affinity, including spouse) working at the IDB, IDB Invest, or IDB Lab.

Type of contract and duration:

- Type of contract: Products and External Services Consultant (PEC), Lump Sum.
- Length of contract: 12 months.

Our culture

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https://www.facebook.com/IADB.org

Al Model Development and Training Consultant

Post of duty: Washington, D.C. - USA

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About this position

The Fiscal Management Division (IFD/FMM) is looking for a professional with experience in Al technologies. In this role you will support the Fiscal Management Division (IFD/FMM) on developing Al-powered virtual assistant for the Fiscal Sustainability for Latin America and the Caribbean Countries (FISLAC) by constructing and training Al models that provide advanced macro-fiscal insights by leveraging historical data and trends.

The Institutions for Development Sector (IFD) team is responsible for conceptualizing, preparing, supporting execution, and supervising Bank operations related to governance, public sector strengthening and reform, economic and fiscal issues, and capital market, financial institutions, and competitiveness development at the national, regional, and local levels. As an IDF Division, the Fiscal Management División (IFD/FMM) supports the governments of LAC to strengthen fiscal policy and management to promote economic growth and reduce inequality and poverty. To support the countries in this task, IFD/FMM finances projects to promote development through the following areas: (i) tax policy and administration; (ii) public spending policy and management; (iii) subnational fiscal policy and management; (iv) fiscal sustainability and macro-fiscal policy; and (v) fiscal transparency.

- **First activity:** Design and develop AI models capable of analyzing macro-fiscal data using advanced machine learning techniques to generate actionable insights. These models should integrate multi-dimensional fiscal indicators such as GDP, inflation, debt levels, and fiscal balances to provide both predictive and diagnostic analyses.
- Second activity: Collect and preprocess historical macro-fiscal data from reliable sources, ensuring it is cleaned, normalized, and aligned across different time frames and countries. This process should also include enriching the dataset with external variables like commodity prices, interest rate trends, and global economic conditions to enhance model robustness.
- Third activity: Train the FISLAC Al-Insights models to produce country-specific fiscal briefings that include detailed assessments of debt levels, fiscal risks, and other key macro-fiscal indicators for each country. These briefings should offer forward-looking insights, leveraging historical data and trends to help policymakers make informed decisions.
- **Fourth activity:** Implement a fiscal risk assessment module within the Al-generated briefings to identify potential vulnerabilities such as unsustainable debt trajectories, fiscal buffers, and risks from external shocks. This module should provide scenario analysis and highlight key risks specific to each country.

- Fifth activity: Conduct rigorous validation and testing of the AI models using back testing techniques and real-world case studies to ensure accuracy and reliability in predicting fiscal outcomes.
- **Sixty activity:** Establish continuous improvement processes, incorporating user feedback, updated data, and evolving economic conditions to refine the Al models over time.

- **Deliverable 1.** Document detailing the work plan and schedule of activities that will be developed during the consultancy, which will follow the objectives determined by the work team.
- **Deliverable 2**. Document detailing the design, development, and functionality of the Al models for macro-fiscal analysis.
- **Deliverable 3**. Document outlining the collection, cleaning, normalization, and enrichment process of the historical macro-fiscal data used for training the AI models.
- **Deliverable 4**. Document providing an overview of the Al's capability to generate detailed, country-specific fiscal briefings, including assessments of debt levels and fiscal risks.
- Deliverable 5. A document presenting the results of the validation and testing process, including accuracy metrics, back testing results, and recommendations for further improvements.

| Deliverable # | <u>Percentage</u> | Planned Date to Submit |
|---------------|-------------------|------------------------|
| 1 | 15% | Junio 2025 |
| 2 | 20% | September 2025 |
| 3 | 20% | November 2025 |
| 4 | 20% | February 2026 |
| 5 | 25% | May 2026 |

What you'll need

- Education: Bachelor's Degree in engineering, economics, mathematics or related.
- **Experience:** At least 4 years of professional experience in data management, econometric and macroeconomic modeling, macroeconomics, and fiscal policy issues.
- Language: English and Spanish.

Key skills:

- Learn continuously.
- Collaborate and share knowledge.
- Focus on clients.
- Communicate and influence.
- Innovate and try new things.

Requirements:

• Citizenship: You are a citizen of one of our 48-member countries.

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Type of contract and duration:

- Type of contract: Products and External Services Consultant (PEC), Lump Sum.
- Length of contract: 12 months.

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Al Assistant User-Friendly Interface Consultant

Post of duty: Washington, D.C. - USA

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About this position

The Fiscal Management Division (IFD/FMM) is looking for a professional with experience in Al technologies. In this role you will support the Fiscal Management Division (IFD/FMM) on developing Al-powered virtual assistant for the Fiscal Sustainability for Latin America and the Caribbean Countries (FISLAC) by creating a user-friendly interface that facilitates seamless interaction with the Al virtual assistant and provides training for users.

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- **First activity:** Develop an intuitive and user-friendly interface that ensures seamless interaction with the FISLAC AI Insights assistant. This activity focuses on usability and accessibility, catering to a diverse range of users, including policymakers and fiscal institutions.
- **Second activity:** Integrate the FISLAC AI Insights assistant with popular communication channels such as WhatsApp to expand accessibility. This ensures the platform supports multiple communication methods, enhancing user engagement and convenience.
- Third activity: Conduct comprehensive user testing to gather feedback on the interface design and functionality. Use the feedback to refine and improve the interface, ensuring it meets the needs and preferences of the users.
- **Fourth activity:** Organize training sessions for policymakers and other users to familiarize them with Integrate the FISLAC AI Insights assistant and its capabilities. Provide detailed user manuals and support materials to enhance the learning experience.
- **Fifth activity:** Implement a continuous improvement plan to regularly update the interface based on user feedback and technological advancements. Offer ongoing support to address any issues and ensure a smooth user experience.
- **Sixty activity:** Create comprehensive documentation detailing the design, integration, and testing processes. Prepare regular reports on user feedback, training outcomes, and interface improvements.

- Deliverable 1. Document detailing the work plan and schedule of activities that will be
 developed during the consultancy, which will follow the objectives determined by the work
 team.
- **Deliverable 2**. Document detailing the comprehensive document detailing the design specifications, user interface elements, and user experience considerations of the FISLAC Allosights.
- **Deliverable 3**. Document outlining the integration process of the FISLAC Al-Insights with popular communication channels such as WhatsApp.
- **Deliverable 4**. Document providing summarizing the user testing process, including methodologies, participant feedback, and identified issues.
- **Deliverable 5**. A document with training manuals and user guides for policymakers and other users. It should include Presentation slides and recorded training sessions for future reference.

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| 3 | 20% | February 2026 |
| 4 | 20% | May 2026 |
| 5 | 25% | July 2026 |

What you'll need

- **Education:** Bachelor's Degree in engineering, economics, mathematics or related.
- **Experience:** At least 4 years of professional experience in data management, econometric and macroeconomic modeling, macroeconomics, and fiscal policy issues.
- Language: English and Spanish.

Key skills:

- Learn continuously.
- Collaborate and share knowledge.
- Focus on clients.
- Communicate and influence.
- Innovate and try new things.

Requirements:

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