DNEXT

PFE internship book

2026 Projects

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01 Who are we

Welcome to **DNEXT Intelligence SA**, a dynamic Swiss-based company specializing in agriculture commodity expertise. As dedicated leaders in commodities market analysis and agricultural commodity market research, we offer unparalleled insights across the global agricultural landscape. From world agricultural supply and demand estimates to agricultural commodity market trends, our expertise spans the entire spectrum.

At the heart of our offerings is our cutting-edge Data Intelligence Platform, a robust tool designed to empower agribusinesses and agricultural traders. With capabilities ranging from supply and demand analysis for agricultural commodities to risk management solutions, our platform is a one-stop hub for informed decision-making.

Why choose us? DNEXT Intelligence SA, a dynamic and privately-owned Swiss-based company specializing in agriculture commodity expertise. As independent leaders in commodities market analysis and agricultural commodity market research, we offer unparalleled insights across the global agricultural landscape. From world agricultural supply and demand estimates to agricultural commodity market trends, our expertise spans the entire spectrum.

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What we stand for

DIVERSITY

We celebrate and embrace diversity, recognizing the unique qualities individuals bring to our organization. By fostering an inclusive environment, we empower everyone to contribute their best, driving innovation and success.

INNOVATION

We prioritize creativity, experimentation, and continuous improvement as essential values. By recognizing innovation as a key growth driver, we aim to pioneer new markets and develop products and services that meet evolving customer needs.

COMMITMENT

We emphasize dedication, accountability, and responsibility as crucial for achieving company goals. By fostering collaboration and a shared sense of purpose, we create a cohesive and goal-oriented work environment.

TEAM SPIRIT

We emphasize the importance of collaboration and cohesion in achieving shared goals. By fostering a positive team dynamic, we enhance performance and drive collective success.

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Join our team

Empowering Careers at DNEXT: Investing in Your Growth from Day One

At **DNEXT**, we believe our employees are our most valuable asset.

Our primary goal is to provide unwavering support and targeted development opportunities to ensure each employee feels confident and well-equipped in their role. We recognize that our organization's success is directly tied to the fulfillment of our employees.

As part of our visionary approach, we aspire to create the most innovative data-driven platform in the industry, dedicated to supporting clients in the commodity sector. Achieving this goal requires a dedicated and skilled team, and we are committed to providing employees with the tools, training, and opportunities needed for meaningful contributions to our collective success.

Join DNEXT, where your career growth is a top priority, and your contributions play a crucial role in realizing our vision for a pioneering data-driven platform in the dynamic world of commodities. Explore the possibilities and be part of a team that values and invests in your professional development.

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02 How to apply

1. Select Your Adventure

Choose the project that excites you the most and aligns with your skills.

2. Craft Your Message in a Bottle

Each project includes an Apply button, click it to complete your application.

Location: *Hybrid (Kalaa kebira Sousse, Tunisia)*
Eligibility:

- *Resident in Tunisia*
- *Final-year student (engineering or master's program)*
- *Computer science background*

Deadline: *The 30th of November 2025*

3. The Final Showdown

Step 1: Complete an assessment to demonstrate your skills and personality.
Step 2: Participate in an interview where you can discuss your potential contributions.

Embark on this journey and let's create something amazing together!

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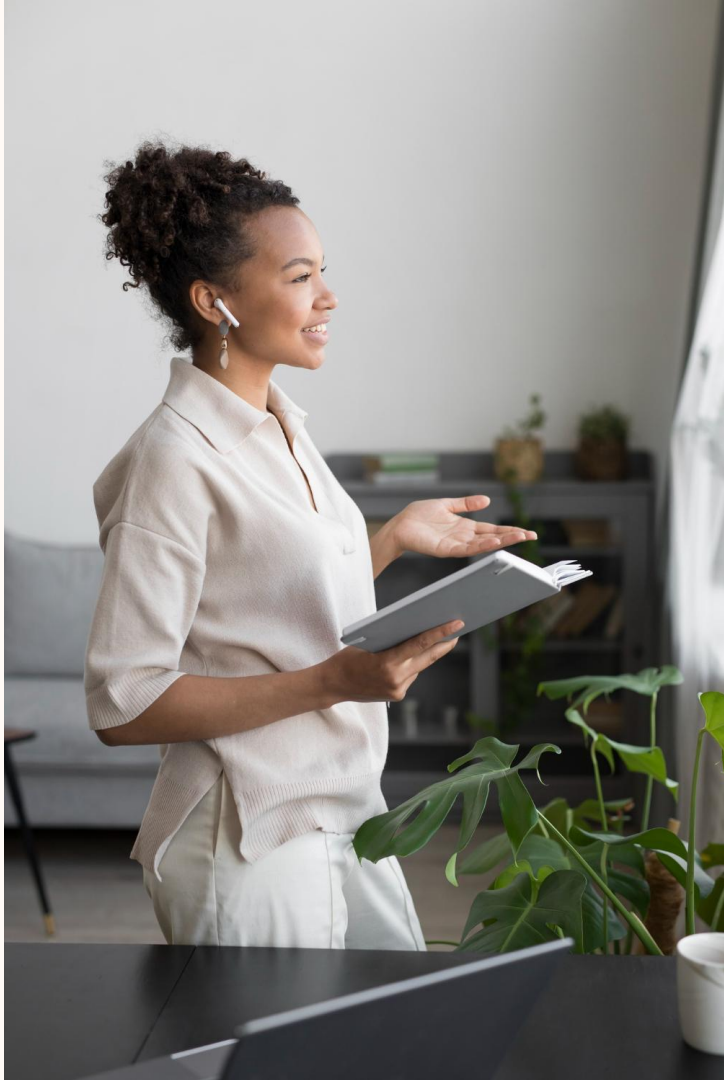

03 Projects

1. AI Commodity News Tracker
2. Cost of Production Analysis
3. AI Data Mapper
4. Macroeconomics Analysis
5. Tariff Import Margin and Trade Allocation

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AI Commodity News Tracker

4 months – 1 student will be accepted

Project Overview

The project focuses on building an AI-powered system that automatically collects and analyzes agricultural commodity news (corn, wheat, soybean, etc.) from global sources. It uses NLP techniques to classify and summarize articles, helping analysts assess sentiment and market impact in real time.

What You'll Do:

- Develop web scraping pipelines to gather news data
- Apply NLP models for summarization and sentiment classification
- Store structured results in a database
- Automate daily updates and build an interactive dashboard to visualize trends by commodity and sentiment.
- Create dashboards to present news results in a user-friendly format.

Technologies:

- Python & Dagster for data collection and automation
- BeautifulSoup or GoogleNews API for scraping
- HuggingFace or OpenAI GPT for NLP
- SQL for managing and querying databases that store the scraped and processed data.
- Streamlit or Power BI for visualization

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Cost of Production Analysis

4 months – 2 students will be accepted

Project Overview

The project involves scraping data related to the cost of production of agricultural commodities from various countries and sources. Key tasks include data orchestration, mapping, and analysis to understand cost structures. A forecast model will be implemented.

What You'll Do:

- Collect data from different sources and countries related to agricultural commodity costs.
- Coordinate the flow of data, ensuring that it is properly mapped and integrated across sources.
- Analyze the data to derive insights into the cost structure of various agricultural commodities.
- Implement a forecast model to predict future costs of production, aiding in trend analysis and planning.
- Create Power BI dashboards to present findings in a user-friendly format.

Technologies:

- Python & Dagster: For data scraping, data processing, and building the forecast model (using libraries like pandas, numpy, scikit-learn, etc.).
- SQL: For managing and querying databases that store the scraped and processed data.
- Power BI & Streamlit: For creating interactive dashboards and visualizations to present the analysis results.

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AI Data Mapper

4 months – 1 student will be accepted

Project Overview

This project aims to develop an intelligent system that automatically suggests the most accurate mappings between client-specific schemas and a master mapping. The goal is to minimize manual work while ensuring high data quality and client customization.

What You'll Do:

- Build algorithms that identify and suggest the most accurate mappings between different data schemas.
- Automate the orchestration of data flows to ensure that client-specific schemas are accurately mapped to the master schema.
- Refine the system to improve the accuracy and efficiency of data mappings over time.
- Create an intuitive interface using Streamlit to allow users to view and interact with the suggested mappings.

Technologies:

- Python & Dagster: For data processing, building the mapping algorithms, and automating workflows (using libraries like pandas, numpy, and scikit-learn).
- SQL: For managing and querying databases that store schema and mapping data.
- Power BI & Streamlit: For creating interactive dashboards and visualizations to display the mapping results and system performance.

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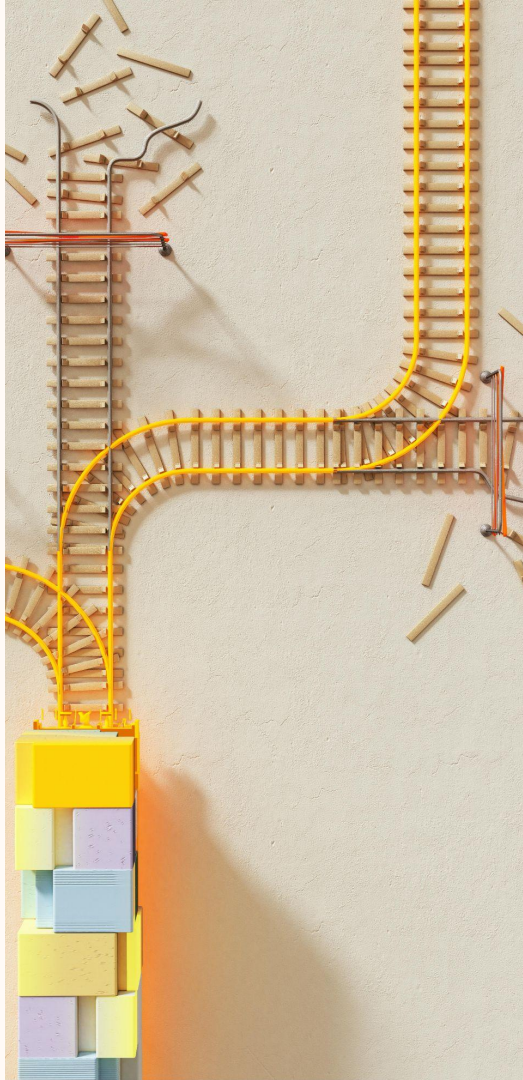

Macroeconomics Analysis

4 months – 1 student will be accepted

Project Overview

This project focuses on analyzing the market dynamics across various countries by scraping relevant data, orchestrating and mapping it to identify relationships between different economic items. The goal is to build a predictive model that forecasts price movements in these countries.

What You'll Do:

- Collect market-related data from different countries.
- Integrate and map the data to understand how different economic factors relate to each other.
- Develop a model to predict price movements based on the relationships discovered in the data.
- Analyze the data to uncover key insights into market behavior across countries.

Technologies:

- Python & Dagster: For data scraping, data processing, and building the predictive model (using libraries like pandas, numpy, and scikit-learn).
- SQL: For managing and querying the economic data.
- Power BI & Streamlit: For creating dashboards and visualizations to present the analysis results.

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Tariff Import Margin and Trade Allocation

4 months – 1 student will be accepted

Project Overview

This project focuses on analyzing global tax regulations and agricultural product pricing. By collecting historical data on taxes and local prices from various countries, the project aims to understand how tax laws influence buyer decisions in the agricultural industry. The goal is to empower companies to make data-driven decisions on whether to prioritize local or imported agricultural products based on financial impacts.

What You'll Do:

- Collect and analyze tax data on agricultural products across different countries, focusing on historical tax data.
- Set up workflows and automated scripts to streamline data collection, while ensuring data quality and consistency through validation scripts.
- Create a dashboard to visualize the pricing trends of local agricultural products versus imported ones, including costs added at incoterms.
- Work within a team to interpret the data findings and continuously improve data validation and analysis workflows.

Technologies:

- Python & Dagster: For data scraping, data processing, and building the predictive model (using libraries like pandas, numpy, and scikit-learn).
- SQL: For managing and querying the necessary data.
- Power BI & Streamlit: For creating dashboards and visualizations to present the analysis results.

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Do you have any questions?

Email: dnext-internship-tn@dnext.io

Website: DNEXT

Join us!

Thanks!

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