



Vatebra Data Academy

Improve your chances of landing a well-paying job and hasten
the development of your career.



Knowing that you are interested in the Vatebra Data Academy is exciting.

The Vatebra Data Academy curriculum aids with your quick transition into one of the most sought-after positions in the digital industry.

We assist you in accelerating your professional growth in 3-4 months with a set of thoughtfully created business-focused data analytics learning materials.

The program combines learning assistant teams from top institutions across the world with top instructors from some of the best digital businesses in Africa. With your help, they will investigate data science in ways that no other program has ever done.

Based on real-world commercial situations and business examples, our information is extremely practical.

As we grasp data analytics and the ways it is reshaping the future of work, we anticipate an exciting 12-16-months immersive learning experience. Live lectures, interactive examples, and immersive group projects will be used to help you enhance your skills in large data querying, reliable linear modeling, and data visualization.

This brochure provides a summary of the curriculum, including how the Academy is set up and what it offers.

Welcome

Data fluency is necessary to access employment in the future. Students and working professionals must acquire critical data skills, such as How to understand outcomes, how to convey a story based on data, and ultimately, how to use data to decide on the best course of business.

As a player in the Industry, Vatebra Academy is a Global market leader in data science & analytics training. We think that people are a pivotal part of AI and Machine learning. We are resolving the human side of the equation with the help of platforms that match talent with employment and training.

Vatebra aims to change the unequal access to employment of the future. Our goal is to establish a global network of young talents, bright Africans, low-income people, and other underrepresented minorities who are data-savvy.

Our goal is clear. In rapidly expanding economies, we wish to assist you in finding local and international technology employment. Technology skills are among the hottest and finest abilities to master today, and they provide you an advantage regardless of your experience.

Data Cleaning and Analysis

Data analysis, Excel, and cleaning.

Excel may be used to work with data more effectively. Learn how to use functions and pivot tables to import, store, organize, and analyze data.

How you intend to use what you learn

Start by using Excel to clean, analyze, and display data to find trends and get insights into a business problem.

Course Module



Fundamentals to Data & Analysis in the Business World



Contemplating Analytical Issues



Conceptual Business Models



The Value Chain for Information and Action (Part 1)



The Value Chain for Information and Action (Part 2)



Events and Characteristics from the Real World

Databases





Types of databases, SQL, and use cases.

Learn how to use Structured Querying Language to access and organize data in a database (SQL). Develop fundamental querying abilities, such as how to connect your data to other tools and change data inside a database.

How you intend to use what you learn

Utilize SQL to query a relational database to retrieve data. In order to get insights, you will alter data using SQL.

Course Module

-  A SQL introduction.
-  SQL Data Aggregation and Sorting.
-  Data Extraction from Multiple Tables
-  Using the UNION Command to stack data.
-  Adding Operators to SQL Queries.
-  Making use of SQL Subqueries.



Power BI Storytelling

Presentation and Visualization of Data

Practice creating visuals and using your data to convey a story. You will create excellent dashboards for continual monitoring and show your insights in a meaningful way using Power BI.

How you intend to use what you learn

Create dashboards and visualizations with Power BI. Create a captivating story to go along with your data analysis, then display it together with your visualizations.

Course Module

01

Understanding Fundamental ideas in data analysis, data visualization, and business intelligence Dashboards are generated automatically by importing your data into platforms like Salesforce, and Google Analytics. connecting to and importing your data, after which it is shaped and transformed, adding business calculations to your data.

02

Dashboard: Using Power BI to use your Excel reports and developing unique graphics for dashboards and reports, group collaboration to create reports and dashboards, effectively sharing dashboards based on your organization's requirements

03

Analytics and exploration Using Power BI to investigate real-time data linkages, Direct connections to HD Spark, SQL Server Analysis Services, and SQL Azure are made. the Power BI Development API introduction, Using Power BI's custom visualizations.

Data Science Programming Using Python

NumPy, Pandas, and Python

Python, one of the most widely used programming languages for data science applications, is taught in this course. Understand the fundamentals of programming, such as data types and structures, as well as how to import and use various packages.

How you intend to put what you've learned into practice

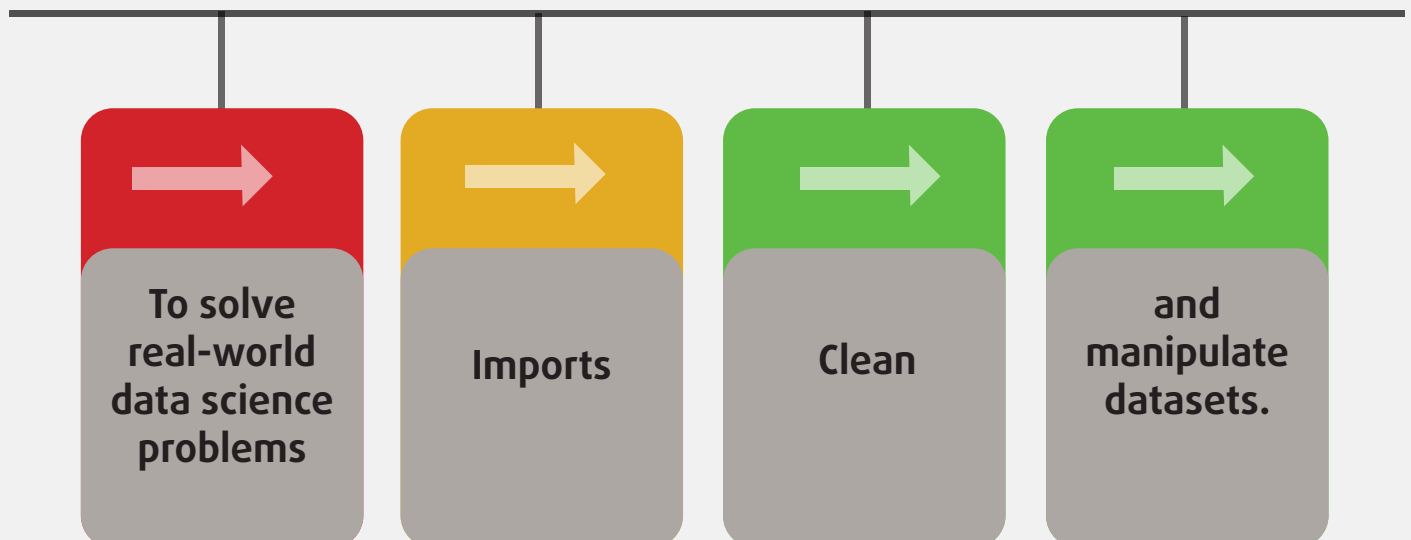
Complete coding challenges and import and explore core data science libraries to hone your Python skills.

Data Cleaning and Analysis

Manipulation of Data, Common errors, as well as Sampling

Python can be used to import, clean, manipulate, and analyze different types of data. Draw conclusions, create a hypothesis, and start running experiments to evaluate your assumptions.

How you intend to put what you've learned into practice



Database Design



Techniques for Regression, Classification, and Machine Learning

Using real-world data problems, you will learn to build linear models for numerical data and categorical models for non-numerical data, as well as machine learning models such as Naive Bayes and Decision Trees. You'll also learn how to validate your models for accuracy and dependability.

How you intend to put what you've learned into practice

Create and run different types of models on real-world datasets to uncover patterns and make predictions.

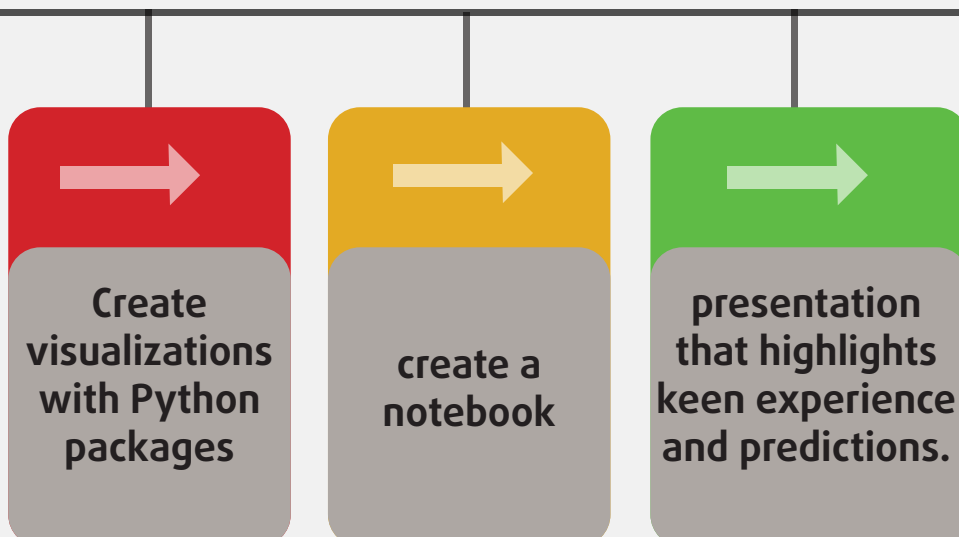
Data Visualization and Presentation



Visualization Software and Visual Analysis

You will create visualizations using Python packages to help tell a story with your observations and predictions. You will then practice presenting your findings.

How you intend to put what you've learned into practice



Our ultimate goal is to ensure that you are fully prepared to find a fantastic career in data science as soon as you graduate from the fellowship. As a result, we offer the most comprehensive employment assistance to match the technical knowledge you have acquired.



Getting you Ready for a Data Science Career

Create a Portfolio

You would have amassed an amazing portfolio of finished projects, displaying the abilities you have acquired, through the sequence of assignments and capstone projects, in addition to the Internship. We'll help you make it seem pristine by cleaning it up.





Getting ready for interviews

To provide you the chance to get feedback, we set you up in a series of one-on-one demo interviews with hiring managers and data scientists.



Obtain Industry Knowledge

Through virtual collaboration with like-minded individuals and subject-matter experts, you would create lasting connections.




Blended Learning Methodology

Blended learning through properly planned virtual live classes, video-based content and in-person



Coaching Sessions every week

Expert coaching sessions held once a week.

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- **Lifetime Access to Training Resources**
 - **Sessions on job readiness and preparation in technology**
 - **Get in touch with Data Analysts from Top Companies**



System Flow

**In-Class Learning by Experts to Capture
Projects to Immersive Job Support to
Virtual Internship**

SUN	MON	TUE	WED	THU	FRI	SAT

Class Schedule

Students will have direct access to lead faculty, fellows, and specialized coaches in real-time.



Classes start at 10am and 2pm on Saturdays and Sundays respectively (excluding holidays), to meet the schedules of working professionals who wish to continue learning while working full-time.



Students from all around the world participate in the classes that are held remotely.



Learners will have to devote roughly 3 hours per week to project work and homework outside of class.

Contact Us



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