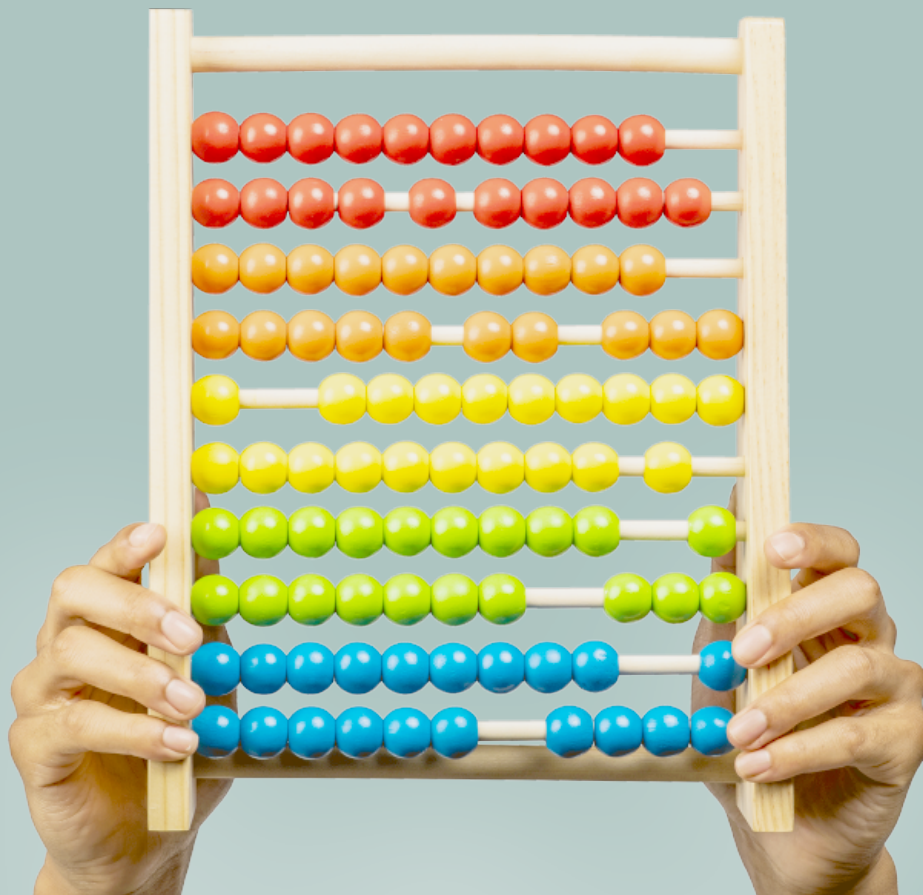


Data



Data Analyst

Analyze data and model phenomena with realistic business cases. Start your career in Data Science now!



Path duration:
580 hours



of full-time study
12 months



Bachelor's-level diploma *

*Data Analyst - code NSF 326 - Bachelor's-level diploma - certification professionnelle enregistrée au Répertoire National des Certifications Professionnelles (RNCP) par décision de France compétences publiée le 10/13/20

OPENCLASSROOMS

Project 1 - 30 hours

Start your journey as a Data Analyst

Set yourself up for success in your path. Find out what you are going to learn and get to know your mentor. You will also define your learning goals in this first project!

Skills

- Prepare for your training

Associated courses



Learn How to Learn



Easy



6 hours

Learning quickly and effectively is a key skill that can improve your learning capacity and help you take control of your personal and professional development.

Project 2 - 40 hours

24 hours in the life of a Data Analyst

Today you must provide a monthly report to your manager. What figures will you choose? Which graphs will you include in your presentation?

Skills

- Describe the role of a Data Analyst

Associated courses



Improve Your Data Literacy



Easy



8 hours

Transform data into information that can drive actions. This course will introduce you to the fundamentals of data analysis, processing, visualization and storytelling.

Project 3 - 50 hours

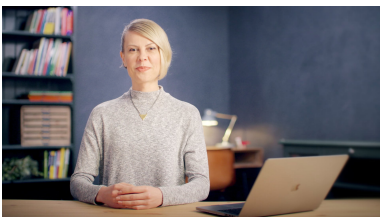
Improve your client's Social Media strategy

You have landed your first freelance job as a Data Analyst for an online magazine! Analyze your client's user data and make recommendations to better target their Social Media audience.

Skills


- Apply relational algebra operations using SQL
- Apply the concepts of the relational model using SQL
- Retrieve and analyze data using SQL queries
- Prepare the database and dataset using SQL

Associated courses

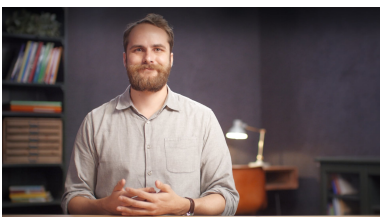


Think like a computer: the logic of programming

 Easy

 4 hours

Have you been thinking about a career in software development? Do you find computers and computer lingo a bit foreign? This course demystifies jargon and puts computer programming within reach!



Retrieve Data Using SQL

 Medium

 20 hours

In this course, you will learn how to represent data using the relational model and apply relational algebra concepts to SQL, the world's most popular query language to query databases.



Speak in Public

Easy

6 hours

Mobilize good practices in public speaking! Discover how to create your content with the techniques of storytelling and mind mapping, how to rehearse effectively and how to master your performance.

Project 4 - 70 hours

Conduct a public health study

You are responsible for setting the parameters for a study on malnutrition. To guide future research, you will have to designate data points, identifying trends and areas for improvement.

Skills

- Apply basic programming operations
- Apply relational algebra operations using Python
- Retrieve data from an external source
- Use a notebook to facilitate programming and collaboration
- Use Python Data Science libraries to solve a business problem

Associated courses

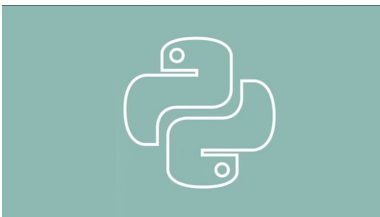


Learn Python Basics for Data Analysis

 Easy


 6 hours

In this course, you will learn an essential programming language for data analysis: Python, and cover programming fundamentals using practical examples and exercises.



Use Python Libraries for Data Science

 Medium

 6 hours

Python has emerged as a prominent language for all things Data Science. Operate in a Jupyter notebook and learn how to use the essential libraries like NumPy, Matplotlib and Pandas.

Project 5 - 80 hours

Analyze your company's sales

Your company provides you with their raw sales data and asks you to make sense of it. It's up to you to spot areas for growth and new market opportunities.

Skills

- Describe a dataset using a bivariate analysis
- Describe a dataset using a univariate analysis
- Transform a dataset for analysis

Associated courses



Perform an Initial Data Analysis



Easy



6 hours

Do you want to learn about data mining? In this course, you will perform univariate and bivariate analyses on your data. Above all, you will learn how to cleanse a dataset!

Project 6 - 100 hours

Conduct a market analysis

You are employed in an agribusiness company that wants to expand internationally. You must therefore identify new countries to grow their business.

Skills

- Perform a statistical test
- Carry out a hierarchical clustering

Associated courses



Perform an Exploratory Data Analysis

 Medium  10 hours

Identify patterns in your data using PCA (Principal Component Analysis), a dimensionality reduction technique, and two of the most popular clustering methods: k-means and hierarchical clustering.



Design Effective Statistical Models to Understand Your Data

 Medium  12 hours

Build, interpret, and evaluate linear, logistic and polynomial regression models based on observations in your data.

Project 7 - 70 hours

Detect counterfeit notes

Your IT consulting company has a new client: a government agency in charge of anti-counterfeiting. Your mission: find a solution to detect counterfeit notes

Skills

- Apply a modeling technique
- Select the appropriate model to meet business requirements
- Perform a classification with the k-means algorithm
- Select the appropriate classification algorithm
- Describe a dataset through principal component analysis

Associated courses



Design Effective Statistical Models to Understand Your Data



Medium



12 hours

Build, interpret, and evaluate linear, logistic and polynomial regression models based on observations in your data.

Project 8 - 80 hours

Make an income prediction

An international bank hopes to find new customers. From existing data, build a model to analyze and predict the income of prospective clients.

Skills

- Apply a linear regression
- Select the appropriate model to meet business requirements
- Apply an ANOVA

Associated courses



Design Effective Statistical Models to Understand Your Data

 Medium  12 hours

Build, interpret, and evaluate linear, logistic and polynomial regression models based on observations in your data.

Project 9 - 60 hours

Help your company visualize their progress

Your pharmaceutical company wants to easily and efficiently monitor their ongoing projects. Your goal: create a custom dashboard for the executive committee.

Skills


- Create a dashboard to inform and assist decision making
- Identify project needs to create a relevant dashboard

Associated courses



Create Dashboards with Tableau

 Easy


 12 hours

In this course, you will learn how to design an effective dashboard blueprint. You will then build interactive and engaging dashboards from scratch using Tableau, an industry-standard data visualization tool.



Create Dashboards With PowerBI

 Easy

 8 hours

Learn how to identify needs for your data visualization project and optimize decision-making through building a dynamic dashboard with Power BI.