Kód kurzu: CDSP

For a business to thrive in our data-driven world, it must treat data as one of its most important assets. Data is crucial for understanding where the business is and where it's headed. Not only can data reveal insights, it can also inform — by guiding decisions and influencing day-to-day operations. This calls for a robust workforce of professionals who can analyze, understand, manipulate, and present data within an effective and repeatable process framework. In other words, the business world needs data science practitioners. This course will enable you to bring value to the business by putting data science concepts into practice. This course includes hands on activities for each topic area.

| Pobočka | Dnů | Cena kurzu | ITB | |
|------------|-----|------------|-----|--|
| Praha | 5 | 90 000 Kč | 50 | |
| Brno | 5 | 90 000 Kč | 50 | |
| Bratislava | 5 | 2 400 € | 50 | |

Uvedené ceny jsou bez DPH.

Termíny kurzu

| Datum | Dnů | Cena kurzu | Typ výuky | Jazyk výuky | Lokalita |
|------------|-----|------------|-----------|-------------|-------------------------|
| 17.02.2025 | 5 | 90 000 Kč | Prezenční | CZ/SK | GOPAS Praha |
| 24.02.2025 | 5 | 2 400 € | Online | EN | GOPAS Bratislava online |
| 12.05.2025 | 5 | 2 400 € | Online | EN | GOPAS Bratislava online |
| 30.06.2025 | 5 | 90 000 Kč | Prezenční | CZ/SK | GOPAS Praha |

Uvedené ceny jsou bez DPH.

Pro koho je kurz určen

This course is designed for business professionals who leverage data to address business issues. The typical student in this course will have several years of experience with computing technology, including some aptitude in computer programming.

However, there is not necessarily a single organizational role that this course targets. A prospective student might be a programmer looking to expand their knowledge of how to guide business decisions by collecting, wrangling, analyzing, and manipulating data through code; or a data analyst with a backgroundin applied math and statistics who wants to take their skills to the next level; or any number of other datadriven situations. Ultimately, the target student is someone who wants to learn how to more effectively extract insights from their work and leverage that insight in addressing business issues, thereby bringing greater value to the business.

This course is also designed to assist students in preparing for the CertNexus® Certified Data Science Practitioner (CDSP) (Exam DSP-110) certification.

Co Vás naučíme

In this course, you will implement data science techniques in order to address business issues. You will:

- Use data science principles to address business issues
- Apply the extract, transform, and load (ETL) process to prepare datasets
- Use multiple techniques to analyze data and extract valuable insights
- Design a machine learning approach to address business issues
- Train, tune, and evaluate classification models

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Certnexus - Certified Data Science Practitioner

- Train, tune, and evaluate regression and forecasting models
- Train, tune, and evaluate clustering models
- Finalize a data science project by presenting models to an audience, putting models into production, and monitoring model performance

Požadované vstupní znalosti

To ensure your success in this course, you should have at least a high-level understanding of fundamental data science concepts, including, but not limited to: types of data, data science roles, the overall data science lifecycle, and the benefits and challenges of data science. You can obtain this level of knowledge by taking the CertNexus DSBIZ™ course. You should have also experience with high-level programming languages like Python. Being comfortable using fundamental Python data science libraries like NumPy and pandas is highly recommended. You can obtain this level of skills and knowledge by taking the Logical Operations course Using Data Science Tools in Python®.

In addition to programming, you should also have experience working with databases, including querying languages like

SQL. Several Logical Operations courses can help you attain this experience:

- Database Design: A Modern Approach
- SQL Querying: Fundamentals (Second Edition)
- SQL Querying: Advanced (Second Edition)

Studijní materiály

Official guide book for this course

Osnova kurzu

Lesson 1: Addressing Business Issues with Data Science

- Initiate a Data Science Project
- Formulate a Data Science Problem

Lesson 2: Extracting, Transforming, and Loading Data

- Extract Data
- Transform Data
- Load Data

Lesson 3: Analyzing Data

- Explore the Underlying Distribution of Data
- Use Visualizations to Analyze Data
- Preprocess Data
- Designing a Machine Learning Approach

Lesson 4: Designing a Machine Learning Approach

- Identify Machine Learning Concepts
- Test a Hypothesis

Lesson 5: Developing Classification Models

- Train and Tune Classification Models
- Evaluate Classification Models

Lesson 6: Developing Regression Models

- Train and Tune Regression Models
- Evaluate Regression Models

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Lesson 7: Developing Clustering Models

- Train and Tune Clustering Models
- Evaluate Clustering Models

Lesson 8: Finalizing a Data Science Project

- Communicate Results to Stakeholders
- Demonstrate Models in a Web App
- Implement and Test Production Pipelines

Appendix A: Mapping Course Content to CertNexus® Certified Data Science Practitioner (CDSP) (Exam

DSP-110)

GOPAS Praha

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