SIEMENS

Fundamentals of Data Analysis / 数据分析基础 (F4015)

Objectives

Understanding what data analysis is, how it can assist work and production, its application in decision-making, and the course covers fundamental knowledge of data analysis, including basic statistics and the implementation of specific models. By learning Python programming, trainees can get started and implement relevant data analysis algorithms. Combined with specific algorithmic models of data analysis, the course enables trainees to conceptualize practical data analysis scenarios based on their actual situations, leveraging data to achieve intelligent and efficient production, work, and decision-making.

Target Group

Personnel who develop data analysis algorithms using Python programming and techniques from fields such as statistics, machine learning, and deep learning

Content

- Basic Definition of Data Analysis
- Data Collection and Storage
- Data Quality and Data Cleaning
- Basic Methods of Data Exploration
- Fundamentals of Statistics
- Descriptive Statistics and Inferential Statistics
- Common Methodologies of Data Analysis
- Fundamental Concepts of Machine Learning
- Linear Regression and Classification Models
- Fundamentals of Deep Learning
- Autoencoder

Prerequisites

Familiar with data processing and analysis tools, solid foundation in mathematics and statistics, and experience in the manufacturing industry

Type

Face-to-face training

Duration

2 days

Language

zh

Fee

7,000 CNY

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