



3 门独立课程

Introduction to Data Analytics

Excel Basics for Data Analysis

Data Visualization and Dashboards with Excel and Cognos



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**Zhihao Zhuang**

已经完成了网络非学分专项课程

# Data Analysis and Visualization Foundations

Earners of this certificate understand the core principles of data analysis and visualization. They can explain the modern data ecosystem, and are familiar with using some of the tools and technologies in this ecosystem. They have demonstrated hands-on experience working with spreadsheets like Excel, loading different data sets, and employing techniques like summarization, sorting, filtering, and creating pivot tables. Learners completing this specialization can utilize Excel spreadsheets to create the many different types of data visualizations such as line plots, bar charts, pie charts, and describe when to use them. They have also created advanced visualizations such as treemaps, scatter charts, histograms, and map charts, and built interactive dashboards using IBM Cognos Analytics.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Rav Ahuja  
Global Program  
Director,  
Skills Network

Sandip Saha Joy  
Cognitive Data Scientist  
IBM

Steve Ryan  
Instructional Designer &  
Content Developer  
Skill-Up Technologies

Kevin McFaul

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