CERTIFIED DATA SCIENTIST

PEOPLE INFORMATION TECHNOLOGY PROGRAM Lecture 01

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Agenda

- Getting to Know Each Other
- Introduction to Data Science
- Example Scenario
- What you need to learn to become a Data Scientist



Getting to Know Each Other

- Your Name
- Current Role/Background: Briefly describe your current job or academic focus.
- Goals: What do you hope to learn or achieve from this course?
- Interests: Are there any specific areas of IT you're interested in or want to explore further?

Getting to Know Each Other

- My Educational Journey.
 - Graduation in Computer Systems Engineering 2014
 - Masters in Information Security 2020
 - PhD in Multi-Modal Data Fusion Ongoing
- Professional Experience.
 - CCNA Instructor
 - Junior Network Engineer
 - Senior Network Manager
 - IT Manager
 - Lecturer
- Personal Experience with Data Science (DEPWISEN)

Introduction to Data Science

Introduction to Data Science

- The broad field involves **collecting**, **cleaning**, **analyzing**, and **interpreting** data to extract meaningful insights.
- It uses tools and techniques from many disciplines, including statistics, machine learning, and programming.
- Example: A business analyzing its sales data to find patterns in customer behavior.

- **1. Statistics**: As the backbone of data science by helping analyze and interpret data
- Programming: Python is mostly used primary programming language for data science
- 3. Machine Learning: Provide a high-level overview of machine learning as a subset of data science used for making predictions based on data



Key Components of Data Science

Software Engineering vs Data Science

Let's Discuss

