CodeCruise

SAIL SMOOTH IN TECH OCEAN

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Fundamentals of Data Science

The "**Fundamentals of Data Science**" course is designed to provide students with a comprehensive understanding of the essential concepts, tools, and techniques used in the field of data science. This course will equip you with practical skills in Python programming, Excel for data analysis, and statistical methods, laying a solid foundation for a career in data science.

Course Objectives:

- Gain a solid understanding of the key concepts and principles in data science.
- Develop proficiency in Python programming for data analysis.
- Learn how to utilize Excel for data manipulation, analysis, and visualization.
- Understand and apply fundamental statistical methods to analyze data.
- Work on real-world data sets to practice and hone your data science skills.

Who Should Enroll:

- Aspiring data scientists and analysts
- Professionals looking to enhance their data analysis skills
- Students interested in pursuing a career in data science
- Anyone with a keen interest in learning data science fundamentals

Prerequisites: No prior experience in data science is required. Basic knowledge of programming and familiarity with Excel will be helpful but not mandatory.

Course Duration: This is an 8-week course, with weekly sessions and hands-on exercises.

Enrollment: Enroll today to kickstart your journey in the exciting field of data science and gain the skills that are highly sought after in today's data-driven world!

Tech Stack To Be Covered

Python: Dive into one of the most versatile programming languages for data science. Learn Python fundamentals and explore its applications in data manipulation, analysis, and visualization using libraries like Pandas, NumPy, and Matplotlib.

Excel: Master the art of data manipulation and analysis using Excel, a powerful tool for organizing and visualizing data. Explore advanced Excel functions, pivot tables, and data modeling techniques to extract insights from complex datasets.

Statistics (Stats): Build a solid foundation in statistics essential for data analysis. Explore descriptive and inferential statistics, hypothesis testing, probability distributions, and regression analysis to make informed decisions based on data.