

Big Data Analytics [First Half] Quiz Preparation Guide

Introduction

This preparation guide is designed to assist students in studying for the Big Data Analytics [First Half] Quiz. It outlines crucial topics and provides selected resources for a focused review.

Study Topics and Resources

Big Data Analytics in Business

Focus Areas:

- Applications of Big Data Analytics
- Predictive analytics and its impact on business decisions

Resource: IBM Big Data Analytics Guide

Fundamental Linux Commands

Focus Areas:

- Basic file navigation (`cd`, `ls`)
- Directory manipulation (`mkdir`, `pwd`)

Resource: Linux Journey

Python Programming Basics

Focus Areas:

- Understanding data types and variables
- Function definition and usage
- Writing simple Python scripts

Resource: Official Python Tutorial

Descriptive Statistics and Data Analysis

Focus Areas:

- Measures of central tendency (mean, median, mode)
- Basic statistical functions in Python

Resource: Khan Academy: Statistics and Probability

Introduction to Numpy

Focus Areas:

- Numpy array creation and manipulation
- Array indexing and slicing

Resource: Numpy Quickstart Tutorial

File Permissions and Text Searching in Linux

Focus Areas:

- Modifying file permissions (`chmod`)
- Searching within files using `grep`

Resource: Linux Tutorial on Permissions

Preparation Tips

- Review the topics outlined above and practice using the provided resources.
- Work on practical exercises in Linux and Python to reinforce your understanding.
- Discuss any difficult concepts with peers or instructors to gain different perspectives.

Conclusion: Proper preparation involves not only understanding theoretical concepts but also applying them through practice. This guide is a starting point for your study; explore each topic deeply to ensure a comprehensive understanding. Best of luck on your quiz!