Spark巨量資料處理與開發實務

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教材編寫

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即學·即戰·即就業 https://www.tibame.com/

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課程大綱

- ◆ Module 1. Big data eco-system Introduction
- ◆ Module 2. Spark/Hadoop development environment Setup
- Module 3. Demo Multi-machine deployment for Spark and Hadoop
- ◆ Module 4. Spark core features overview
- ◆ Module 5. Demo Dive-in with WordCount calculation
- Module 6. SparkContext, RDD, Transformations and Actions overview
- ◆ Module 7. Spark architecture and execution flow introduction
- Module 8. Common RDD Transformation and Actions I
- Module 9. Demo Web logs analysis for detecting traffic fraud and identify locations
- ◆ Module 10. Common RDD Transformation and Actions 2

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- Module 11. Demo Movie data analysis for movie similarity for movie recommendation
- ◆ Module 12. RDD Persistence and Accumulator and Broadcast variables
- Module 13. Spark SQL overview and programming model, I
- ◆ Module 14. Spark SQL overview and programming model II
- ◆ Module 15. Creating DataFrame from structural semistructural files - JSON and CSV files
- ◆ Module 16. Real-world file format for storing big data
- Module 17. Creating DataFrame from RDD, Drive-local list and RDB tables
- ◆ Module 18. DataFrame analysis using SQL and create UDFs
- ◆ Module 19. Demo Creating UDFs and web logs analysis demo
- ◆ Module 20. DataFrame analysis using Transformation API I

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- ◆ Module 21. DataFrame analysis using Transformation API II
- ◆ Module 22. Demo Crime and Finance data analysis
- Module 23. Spark Streaming overview and programming model
- ◆ Module 24. StreamingContext, DStream, Streaming program console introduction and performance monitoring
- ◆ Module 25. File stream introduction and demo
- ◆ Module 26. DStream transformations and window methods
- Module 27. Receiving data from Kafka
- ◆ Module 28. Demo Real-time sentiment analysis with a pretrained model from Kafka traffic
- ◆ Module 29. DStream output actions
- ◆ Module 30. Demo Real-time EC logs analysis