



## Data Engineer - Snowflake

	MON	TUE	WED	THU	FRI	ENVIRONMENT
<b>Week 1 Scala</b>	<ul style="list-style-type: none"> <li>• Introduction to Scala</li> <li>• Scala Setup</li> <li>• Functional Programming</li> <li>• Variables and Values</li> <li>• Data Types</li> </ul>	<ul style="list-style-type: none"> <li>• Conditions</li> <li>• Loops</li> <li>• Classes and Objects</li> <li>• Structure of Classes</li> <li>• Expression vs Statement</li> <li>• Tuples</li> </ul>	<ul style="list-style-type: none"> <li>• Functions</li> <li>• Pure vs Impure Functions</li> <li>• Higher Order Functions</li> </ul>	<ul style="list-style-type: none"> <li>• Exception Handling</li> <li>• Pattern Matching</li> <li>• Scala Collections</li> <li>• List</li> <li>• Set</li> <li>• Map</li> </ul>	Review	
<b>Week 2 PySpark</b>	<ul style="list-style-type: none"> <li>• Spark Ecosystem</li> <li>• Hadoop vs. Spark</li> <li>• Spark Setup</li> <li>• Introduction to Spark</li> <li>• Local vs. Cluster Mode</li> <li>• Introduction to RDDs</li> <li>• Basic RDD Operations</li> </ul>	<ul style="list-style-type: none"> <li>• Actions</li> <li>• Transformations</li> <li>• Shared Variables</li> <li>• Accumulators</li> </ul>	Project <ul style="list-style-type: none"> <li>• Data Loading</li> <li>• Data Saving</li> <li>• Working with Key-Value Pairs</li> </ul>	Project <ul style="list-style-type: none"> <li>• Spark Cluster Manager</li> <li>• Driver Class Configuration</li> <li>• Spark-submit Overview</li> <li>• Launching a Spark Job</li> <li>• Executors</li> <li>• Spark Cluster Mode</li> </ul>	Project <b>Review</b>	
<b>Week 3 PySpark (cont)</b>	Project <ul style="list-style-type: none"> <li>• Spark Session</li> <li>• Spark Session vs. Spark Context</li> <li>• Introduction to Dataframes</li> <li>• Creating Dataframes</li> </ul>	Project <ul style="list-style-type: none"> <li>• Dataframe Operations</li> <li>• Data Selecting</li> <li>• Filtering</li> <li>• Aggregation</li> <li>• Joins</li> </ul>	Project <ul style="list-style-type: none"> <li>• Set Operations</li> <li>• Adding and Removing Columns</li> <li>• Spark SQL</li> </ul>	Project <ul style="list-style-type: none"> <li>• Partitioning</li> <li>• Bucketting</li> <li>• Caching</li> </ul>	Project <b>Review</b>	
<b>Week 4 Snowflake</b>	Project Certification Prep <ul style="list-style-type: none"> <li>• Snowflake Introduction</li> <li>• Architecture</li> <li>• Virtual Warehouses</li> <li>• Bulk Data Loading</li> </ul>	Project Certification Prep <ul style="list-style-type: none"> <li>• Data Loading File Formats</li> <li>• Creating Tables</li> <li>• Schemas</li> <li>• SnowSQL Basic Operations</li> </ul>	Project Certification Prep <ul style="list-style-type: none"> <li>• Querying Semi-structured Data</li> <li>• Storage Optimization</li> <li>• Warehouse Optimization</li> <li>• Database</li> </ul>	Project Certification Prep <ul style="list-style-type: none"> <li>• Time Travel</li> <li>• UDFs in Snowflake</li> <li>• Data Sharing</li> </ul>	Project Certification Prep <b>Review</b>	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
	<ul style="list-style-type: none"><li>• Tables and Views</li></ul>	<ul style="list-style-type: none"><li>• Queries</li><li>• Zero Copy Cloning</li></ul>	Replication			
Week 5 Snowflake (cont)	Project Certification Prep <ul style="list-style-type: none"><li>• Snowpipe</li><li>• Data Loading Best Practices</li><li>• Streams</li><li>• Tasks</li></ul>	Project Certification Prep <ul style="list-style-type: none"><li>• Security Model</li><li>• Users</li><li>• Access Control</li><li>• Roles, Priveleges</li></ul>	Project Certification Prep  Review	Project Certification Prep  Review	Certification Prep	

PROJECT	TECHNOLOGIES
Project	Spark, Snowflake, ETL, SQL



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