

Week 1:

Focus: Introduction to Data Engineering and Python Basics

Skill Audit Summary

| Existing Skills | Skill Gaps | Recommended Topics | Career Suggestions |
|-----------------|--------------------|-----------------------------------|-----------------------------------|
| ----- | ----- | ----- | ----- |
| Python | AWS | AWS Data Services | Senior Data Engineer,... |
| GIS | Cloud Optimization | Azure, Terraform | Cloud Architect,... |
| ETL Processes | Big Data Tools | Hadoop, Spark | Big Data Engineer,... |
| Database Design | Spark Streaming | Spark Streaming | Real-time Data Engineer,... |
| Automation | Machine Learning | TensorFlow, PyTorch, scikit-learn | Machine Learning Engineer,... |
| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Resources: <https://www.coursera.org/learn/python>

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Week 2:

Focus: SQL and Database Fundamentals

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Resources: <https://www.w3schools.com/sql/>

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Week 3:

Focus: Introduction to Cloud Platforms (Google Cloud Platform)

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| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Resources: <https://www.coursera.org/learn/cloud-architecture-google>

<https://www.coursera.org/learn/cloud-data-analytics-google>

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Week 4:

Focus: Data Wrangling and ETL Processes

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
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Resources: <https://www.datacamp.com/courses/pandas-for-data-analysis>)

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Week 5:

Focus: Introduction to Data Warehousing and Data Lakes

Skill Audit Summary

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CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,...

Resources: Skill Audit Summary

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Week 6:

Focus: Cloud Data Storage and Processing (Google Cloud Platform)

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| Automation | | Machine Learning | | TensorFlow, PyTorch, scikit-learn | | Machine Learning Engineer,... |
| DevOps | | Kubernetes | | Kubernetes Administration | | DevOps Engineer,... |
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Resources: Skill Audit Summary

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| DevOps | | Kubernetes | | Kubernetes Administration | | DevOps Engineer,... |
| CI/CD | | Data Visualization | | PowerBI, Tableau Dashboards | | Business Intelligence Analyst,... |

Week 7:

Focus: Data Pipeline Optimization and Automation

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
| CI/CD | Data Visualization | PowerBI, Tableau Dashboards | Business Intelligence Analyst,... |

Week 8:

Focus: Data Governance and Quality Control

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Resources: <https://www.ibm.com/topics/data-governance>

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| DevOps | Kubernetes | Kubernetes Administration | DevOps Engineer,... |
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Week 9:

Focus: Cloud Computing and DevOps (Google Cloud Platform)

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Week 10:

Focus: Review and Final Project

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