Course Offerings

Data Analytics • Cyber Security • Data Science

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Industry-Ready Certification Programs
Hands-On Project Experience
Expert-Led Training

December 2025

Contents

1 Introduction

This document presents a comprehensive overview of the courses provided in the domains of **Data Analytics**, **Cyber Security**, and **Data Science**. Each discipline is detailed through its Foundation and Advanced levels, highlighting syllabi, skills imparted, certifications, project work, and career benefits. Designed with a structured progression, these courses empower learners to master core concepts, practical tools, and real-world applications essential for thriving in today's data-driven and security-conscious environments.

The following sections elaborate on curriculum details, learning outcomes, and course features designed to equip students with competitive industry skills.

2 Data Analytics

Data Analytics

Duration: 4 months **Certification:** Yes

2.1 Foundation Level

Foundation Level

Duration: 2 months

- **Basics:** Data Entry, Formatting, Formulas, Pivot Tables, Charts
- **SQL Fundamentals:** SELECT, WHERE, GROUP BY, JOIN, Basic Aggregation
- **Basic Statistics:** Mean, Median, Mode, Variance, Simple Probability
- **Data Visualization:** Power BI/Tableau Dashboards, Basic Storytelling
- **SQL Deep Dive:** Sub-queries, Window Functions, CTEs, Performance Tuning
- **Python/R:** Pandas/dplyr for Data Wrangling, Basic Scripting, Automation
- **Stats & Analytics:** Hypothesis Testing, A/B Testing, Regression Basics, Cohort Analysis
- **Advanced Visualization:** Interactive Dashboards, Storytelling

Project Work: Real-world datasets, cleaning pipelines, simple predictive models.
Certification: Provided upon successful completion.

2.2 Advanced Level

Advanced Level

Duration: 2 months

- **Machine Learning:** Supervised/Unsupervised algorithms, model evaluation, feature engineering
- **Big Data Tools:** Spark (PySpark/Scala), Hadoop, SQL-on-Hadoop
- **Advanced Statistics:** Time-series forecasting, survival analysis, Bayesian methods
- **Data Engineering:** ETL pipelines, data warehousing (Snowflake, Redshift), orchestration with Airflow
- **Specialized Visualization:** Interactive web dashboards (Plotly, Dash), geospatial mapping, Tableau extensions
- **Capstone & Deployment:** End-to-end project, API integration, cloud deployment (AWS/GCP)

Certification: Provided upon successful completion.

Course Level	Duration	Price (USD)
Foundation	2 months	1,200
Advanced	2 months	1,800

3 Cyber Security

Cyber Security

Duration: 6 months **Certification:** Yes

3.1 Foundation Level

Foundation Level

Duration: 3 months

Module	Topics
Networking Fundamentals	OSI model, TCP/IP, HTTP/DNS/DHCP
Operating Systems	Windows & Linux basics, file permissions, user management
Security Concepts	CIA triad, threat types, malware overview
Basic Cryptography	Symmetric vs. asymmetric encryption, hashing (MD5, SHA-1), simple ciphers
Identity & Access	Authentication methods, password policies, basic IAM terms
Risk & Compliance	Intro to risk assessment, GDPR/ISO 27001 basics
Security Tools	Firewalls, antivirus, VPN concepts

3.2 Advanced Level

Advanced Level

Duration: 3 months

- Threat Modeling & Risk Analysis: STRIDE, ATT&CK framework, quantitative risk metrics
- Advanced Cryptography: PKI, elliptic-curve cryptography, homomorphic encryption, TLS 1.3/IPSec
- Penetration Testing & Red-team Ops: Reconnaissance, exploit development, privilege escalation
- Security Architecture: Zero-trust design, micro-segmentation, secure SDLC
- Cloud & Container Security: CSPM, IAM policies, Kubernetes RBAC
- DevSecOps & Automation: CI/CD hardening, IaC scanning, automated compliance
- Incident Response & Forensics: IR playbooks, memory/disk forensics, SIEM log correlation
- Governance, Compliance & Audit: ISO 27001, SOC 2, NIST CSF, GDPR/CCPA

Certification: Provided upon successful completion.

Course Level	Duration	Price (USD)
Foundation	3 months	1,400
Advanced	3 months	2,200

4 Data Science

Data Science

Duration: 4 months **Certification:** Yes

4.1 Foundation Level

Foundation Level

Duration: 2 months

- Mathematics: Linear algebra, probability, statistics, calculus basics
- Programming Foundations: Python, NumPy, Pandas, Matplotlib/Seaborn, Jupyter notebooks

- Data Handling: CSV, SQL, APIs, cleaning, transforming data
- Exploratory Data Analysis (EDA): Descriptive statistics, pattern identification
- Intro to Machine Learning: Supervised/unsupervised, basic algorithms, evaluation
- Data Visualization: Matplotlib/Seaborn, Plotly/Bokeh, storytelling
- Project Workflow: CRISP-DM framework, documentation, simple project

Certification: Provided upon successful completion.

4.2 Advanced Level

Advanced Level

Duration: 2 months

- Advanced Mathematics & Statistics: Multivariate calculus, Bayesian inference
- Advanced Programming: Python deep-dive, performance libraries, CI/CD pipelines
- Data Engineering: ETL/ELT, big-data storage, streaming
- Machine Learning: Advanced algorithms, ensemble methods, dimensionality reduction
- Deep Learning: CNNs, RNNs, Transformers, generative/reinforcement learning
- NLP & Speech: Text preprocessing, embeddings, speech recognition
- Computer Vision: Image classification, object detection, video analysis
- MLOps: Model versioning, CI/CD for ML, monitoring
- Capstone Project: End-to-end solution deployment and monitoring

Certification: Provided upon successful completion.

Course Level	Duration	Price (USD)
Foundation	2 months	1,300
Advanced	2 months	2,100

5 Summary of Course Pricing

Course	Foundation	Advanced	Duration
Data Analytics	$1,200	$1,800	4 months
Cyber Security	$1,400	$2,200	6 months
Data Science	$1,300	$2,100	4 months

6 Conclusion

Ready to Transform Your Career?

Enroll Now & Start Your Journey

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