



# AI-ML-Analytics-RPA-Cloud-Cybersecurity Training

## Power Your Technical Skills

Guided by Industry Experts with 20+ WorkEx



*Dr. Tuhin Chattopadhyay*  
Your Trusted AI & Analytics Partner

Security  
 Cloud  
 RPA  
 Analytics  
 Courses

# Dr. Tuhin Chattopadhyay

## Internationally Acclaimed Trainer



CIO Conclave & Awards 2020  
 UBS Forums

CIO Conclave & Awards CTO of the Year - 2020



Zendesk Awards Digital CX Summit

Digital Transformation Leader of the Year - 2019



Inflection Awards NASSCOM CoE - IoT

Artificial Intelligence Leader of the year - 2018



KamiKaze B2B Media Big Data, Analytics & Insights Summit

Analytics and Insight Leader of the Year - 2017



Top 10 Data Scientists In Analytics India Magazine

India's Top 10 Data Scientists - 2016



FOUNDER & CEO  
 TUHIN AI ADVISORY



# AI-ML-Analytics-NLP Fundamental Courses

1. AI-ML  
Primer

2. ML @  
Cloud

3. Data  
Mgmt

4. Python

5. AI

6. NLP

## Vertical Wise Analytics Training Courses

7. Retail/ CPG  
Analytics

8. Telecom  
Analytics

9. Actuarial  
Analytics

10. Retail  
Banking  
Analytics

11.  
Manufacturing  
Analytics

## Horizontal Analytics Training Courses

12. Marketing  
Analytics

13. Sales  
Analytics

14. Customer  
Service  
Analytics

15. Operations  
& Supply Chain  
Analytics

16. Human  
Resource  
Analytics

17. Financial  
Analytics

18. Digital  
Analytics

Security

Cloud

RPA

Analytics



Courses

Trainer

## RPA Certification Courses

- 19. Automation Anywhere
- 20. Blue Prism
- 21. UiPath

## Cloud Certification Courses

- 22. Azure Training
- 23. Azure Administrator
- 24. Azure Developer
- 25. Azure Solution Architect
- 26. AWS Architect
- 27. Virtualization Engineer

## Cybersecurity Training Courses

- 28. Ethical Hacking
- 29. Cyber Security Analyst
- 30. Certified Information Systems Auditor (CISA)

# AI-ML-Analytics-NLP Fundamental Courses

Security

Cloud

RPA

AI-ML

1

**AI – ML Primer**

Hands-on workshop to comprehend and strategize



ML Cloud

2

**AI-ML over Azure**

Power your Digitization directly over Cloud



Data Mgmt

3

**DeltaLake & LakeHouse**

Cutting Edge Data Mgmt



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# AI-ML-Analytics-NLP Fundamental Courses

1

## AI-ML Primer

- ML Vs BI Reporting
- Supervised vs un-supervised Machine Learning
- Reinforcement Learning
- Basic ML Algos: Linear Regression, Logistic Regression, Clustering, Decision Tree
- Optimization Techniques:
  - Linear Programming, Goal Programming, Integer Programming
  - Genetic Algorithms
  - Ant Colony Optimization / Swarm Intelligence
- AI discussion over CNN, RestNet and other DL Alogs
- Model validation
- Data Visualization
- Industry Use-Case discussions
- Team-Work: AI-ML Ideation
- Planning for AI-ML Culture
- Sensitizing AI-ML: Ethics

2

## AI-ML Over Azure

- Applied Statistics for ML
- Data prep over Cloud
- Data cleansing & Engineering
- Basics of ML Thinking
- Python Labs
- Supervised & Unsupervised Modeling
- Testing of Models
- Team DS process
- Basics of AI
- Modern ML-AI over Azure
- Experiments over Azure
- Operationalization of ML
- Deep Learning
- Gradient descend optimizations
- Ethics in AI

3

## DeltaLake & LakeHouse

- What is the new Data Revolution?
- Ideating the modern data management use-cases
- Why DataWarehouses and DataLakes are not good enough?
- Introduction to DeltaLake
- What problems to DeltaLakes solve
- Why invest in DataBricks Ingest?
- Advantages of LakeHouse
- Solutioning for the disruptive data-management architectures
- The first use-case formulations

Security

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# AI-ML-Analytics-NLP Fundamental Courses

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Python  
4

Data Science  
Using Python

Duration: 40 hrs.



AI  
5

AI Using  
Keras &  
Tensorflow

Duration: 40 hrs.



NLP  
6

NLP Using  
Python

Duration: 40 hrs.



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# AI-ML-Analytics-NLP Fundamental Courses

4

## Python 101

- Philosophy of Python
- Python Syntax - Variables, Data Structures, Classes, Functions
- Introduction to Data Science using Python and library architecture
- Numpy & Pandas
- Handling data
- Regressions & Classifications using Numpy, Pandas, ScikitLearn
- Data Visualization using Python, Pandas, Matplotlib and Plot.ly

5

## Artificial Intelligence

- Introduction to Deep Learning
- Applications of Deep Learning
- Differences between DL & ML
- Image/ video Analytics
  - Convolutional Neural Networks
  - Image & Event Analysis
  - Situation & Behavior Analysis
  - Object, Motion & Style detection
  - Determination of Location
  - Content Analysis & Exploratory Research
- Speech Mining
  - Speech transcription, Phonetics, Tone and Buzz word Search to enhance :
    - Customer Service Performance
    - Service/Product Positioning
- Reinforcement Learning using Recurrent Neural Networks & Deep Q Learning
- Forecasting using LSTM
- Introduction to Generative Adversarial Networks
- Latest Advancements in AI

6

## Natural Language Processing

- Topic Modeling
  - Latent Dirichlet Allocation (LDA)
  - k-Means Cluster Analysis
  - Density Based Spatial Clustering of Application with Noise (DBSCAN)
  - Latent Semantic Indexing (LSI)
- Auto abstracting
- Content Analysis
  - Neuro-linguistic programming
- Name Entity Recognition (NER)
  - Spacy
  - Stanford NLP
  - Dbpedia Spotlight
- Text Classification/ Intent Identification/ Sentiment Analysis
  - FastText
  - Convolutional Neural Network (CNN)
  - Recurrent Neural Network (RNN)
  - Naïve Bayes
  - Support Vector Machine (SVM)



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# Vertical Wise Analytics Training Courses

## 7. Retail/ CPG Analytics

### Consumer

- Advanced Consumer Segmentation & Profiling
- Consumer Scorecard on CLTV & Loyalty
- Repeat Purchase & Purchase Basket Analytics
- Response Driven Offer Design
- Response Modeling & Enhanced Campaign Management
- Fraud Detection & Prevention measure
- Customer Experience & Brand Measure

### Product

- Performance Analysis & Category Management
- Product Assortment Optimization & Shelf Space Allocation
- Market Mix Modeling
- Price Elasticity & Pricing Optimization

### Operation

- Real Estate /Store location Optimization
- Supply Chain Analytics
- Integrated Forecasting & Workforce Analytics
- Localization & Clustering

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# Vertical Wise Analytics Training Courses

## 8. Telecom Analytics

### Subscriber

- Subscriber Segmentation & Profiling
- Micro segmentation
  - Recharge
  - Mobile data pattern
- Prediction:
  - Churn
  - Survival period
  - Secondary SIMer
- Fraud Risk Management
  - Source
  - Collection
  - Recovery scorecard
- Propensity Modeling
  - NBO (Next Best Offer)
  - VAS

### Network

- Proactive Network Monitoring
- Optimal Usage Analysis
- Network Capacity & Scalability
- Revenue Leakage Analysis

### Marketing & Sales

- Response Modeling
- Real Time Marketing Actions with Targeted Campaign management
- Customer Experience & Brand Measure

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# Vertical Wise Analytics Training Courses

## 9. Actuarial Analytics

### Risk & Financial Performance

- Predictive Risk Scoring
- Fraud Detection, Claims & Renewal Analytics
- Collection & Recovery Analytics
- Portfolio growth & Profitability Analysis

### Customer

- Customer Lifetime Value
- Segmentation & Profiling
- Persistency Prediction & Multi-Channel Campaign Management
- Customer 'Response mining' towards Need, Sentiment & Loyalty Analysis

### Marketing & Sales

- Channel Effectiveness & Sales Force Analytics
- Smart Sell (Up and/ or Cross Sell Propensity) Analysis
- Market Mix Modeling & Media Effectiveness Analysis

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# Vertical Wise Analytics Training Courses

## 10. Retail Banking Analytics

### Risk Management

- Online Dashboards With Lag & Lead KPIs
- Credit Rating & Risk Models
- Time Series analysis & Survival Models
- Basel III Analytics
- Risk Assessment Models
- Predict Defaulters for Pre-emptive Actions

### Customer

- Customer Life-Time Value , Segmentation & Profiling
- Customer Behavior Mining on 'earn, spend, balance & risk appetite'
- Predict Propensity to Churn & Survival Analysis
- Customer Sentiment & Loyalty Analysis
- Determine Reward & Redemption Behavior

### Marketing & Sales

- Channel Effectiveness & Channel- mix modeling
- Sales Force Analytics
- Smart Sell (up and/ or cross sell) Propensity Analysis
- Customized Campaign Design & Management
- Media Effectiveness Analysis

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# Vertical Wise Analytics Training Courses

## 11. Manufacturing Analytics

### Process & Supply Chain

- Process & Quality Analysis
- Vendor Performance Management With Key Driver Analysis
- Warranty Analysis with Reliability Estimation & Claim
- Predictive Maintenance Analysis & Workforce Scheduling
- Distribution & Route Optimization
- Demand Planning and Inventory replenishment
- Optimization Analysis of Distribution & Route

### Merchandizing

- Demand Forecasting, SKU Rationalization & Portfolio Returns.
- Pricing Analytics by SKU
- Assortment Planning to Ensures the Right Product Mix in Every Channel & Category

### Marketing

- Media Effectiveness Analytics
- Customer Satisfaction & Brand Measure
- Market Mix Modeling

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# Horizontal Wise Analytics Training Courses

## 12. Marketing Analytics

- \* Product usage & product portfolio analysis with Demand Forecasting
- \* Feasibility study for new product entry
- \* Product Innovation & Quality Analysis
- \* Market Basket Analysis for Product Positioning & SKU Analysis
- \* Price Elasticity Modeling & Profitable Pricing Strategy Driver Analysis

- \* Advanced Customer Segmentation & Profiling :
  - \* Geo-demographics, Usage based, Lifestyle Attitudinal base, Behavioral, Psychological
- \* Customer
  - \* Potential & Lifetime value (CLTV) Scorecard
  - \* Churn Prediction Model & Survival Analysis
  - \* Experience Measure & Satisfaction Index
  - \* Loyalty Index & Loyalty Program Effectiveness Analysis
- \* Campaign Scorecard & ROI Measure With Response Modeling

- \* Market Opportunity Mapping & Feasibility Study With Volume Forecast
- \* Market & Media mix modeling
- \* Brand awareness, perception audit monitoring & brand equity analysis
- \* Promotion evaluation & tracking



# Horizontal Wise Analytics Training Courses

## 13. Sales Analytics

- Sales performance monitoring , Pipeline & Cycle time analysis
- Sales forecasting, New lead Opportunity Identification & analysis
- Share-of wallet Analysis
- Smart sell (cross sell/up sell ) Propensity Model
- Sales force effectiveness measurement & optimization
- Sales Incentive Design & Optimization
- Sales channel efficiency measure & distribution analysis

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# Horizontal Wise Analytics Training Courses

## 14. Customer Service Analytics

- Predict Customer Behavior & Determine 'Agony Threshold'
- Resolution improvement analysis & optimization
- Service trend analysis & agent effectiveness model
- Determine Net promoter Score, Sentiment & Performance Analysis
- Customer profiling, fraud detection & risk prediction
- Analysis of 'Cost of Service' and reduction opportunity identification

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# Horizontal Wise Analytics Training Courses

## 15. Operations & Supply Chain Analytics

- Operation & Process Optimization Analysis
- Performance & Productivity Analysis towards Capacity Planning
- Process Quality analysis
- Supply & Demand Analysis
- Strategic Sourcing, Procurement Cycle Time & Spend Analysis
- Inventory Availability & Requirement Forecasting
- Order linearity & fulfillment status analysis
- BOM & Other Expenses Analysis
- Supplier Performance Analysis
- Optimum Scheduling Modeling

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# Horizontal Wise Analytics Training Courses

## 16. Human Resources Analytics

- Recruitment & Compensation Analytics
- Retention Analytics
- Workforce Analytics
- 360 Degree Performance Assessment & Evaluations
- Capacity Optimization Modeling
- Employee Satisfaction & Sentiment measure

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# Horizontal Wise Analytics Training Courses

## 17. Financial Analytics

- Financial Performance Trend With Lead KPIs
- A/R & A/P Analysis
- P&L Analysis & Expense Management
- Cash flow Analysis & Forecasting
- Collection Analysis & Optimization
- Financial ratio analysis, break-even analysis, NPV & IRR analysis
- Future Loss Reserve Estimation
- Portfolio Stress Testing & Portfolio Attrition Analysis

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## 18. Digital Analytics

- Click Stream & On-line traffic Analytics
- Conversion & Content Analytics: Attribution Modelling
- 'Noise of Consumer' & Sentiment Analytics
- Visitors' Web behavior Mining
- Tailor Topic & Buzz word Classification
- Brand Measure & Perceptual mapping
- Satisfaction Measure & NPS Score
- Media Effectiveness Measure by source
- Brand Promoter –Mass -Distraction prediction

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# RPA Certification Courses

Security  
Cloud

**Automation Anywhere**  
**19**

**Certified Course**  
Real-life Industry RPA projects



**Blue Prism**  
**20**

**Certified Course**  
Real-life Industry RPA projects



**UiPath**  
**21**

**Certified Course**  
Real-life Industry RPA projects



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# RPA Certification Courses

## 19. Automation Anywhere

What Is Robotic Process Automation ?  
Automation Anywhere's Robotic Process Automation  
Automation Anywhere Tool Architecture  
Automation Anywhere Component Architecture  
Automation Anywhere Installation  
Automation Anywhere Tool Configuration With Database  
Automation Anywhere Tool Demo  
Understanding Recorder Features  
Screen Recorder  
Web Recorder  
Smart Recorder  
Understanding Task Editor  
Understanding Variable Manager & Its Properties  
Task Editor Properties  
Creating & Managing Task  
Creating & Managing Variables  
Control Room Process Execution

Understanding Auto Logins  
Visualize Technology  
Using Metabots Designer  
Setting Up Email Configurations  
Understanding Multitask Designer  
Using Snapoints  
Using Report Designer  
Understanding Control Room

Understanding App Integration  
Database Command  
Delay or Wait Command  
Web Recorder Commands  
Logging and Email Automation  
Log To File Command  
Error Handling  
Excel & CSV  
Files & Folders Command  
Understanding FTP/SFTP  
Understanding IF/ELSE  
Understanding Image Recognition  
Keystroke Command  
Loop Command

Managing Control Room  
Managing Repository  
Scheduling Task  
User , Role & Permission  
Understanding Credentials Manager  
Workflow Designer  
BOT deployment and best practices  
RPA ROI Calculation  
Automation Anywhere Live Project Assignments

Manage Windows Control  
Object Cloning Command  
OCR Command  
Open / Program File Command  
PDF Integration  
Prompt Command  
Web Service Command  
Run Script Command  
String Operation Command  
Run Task Command  
Terminal Emulator Command  
Variable Operation Command  
Windows Action Command  
XML Command  
Other Advanced Controls

Practical Projects  
Amazon Data Extraction  
Windows Data Entry Operations  
Invoice PDF Automation  
Automated Email Operation  
Calculator Automation  
CSV Data Extraction  
Notepad Automation



# RPA Certification Courses

## 20. Blue Prism

### Introduction

- What Is Robotic Process Automation ?
- Blue Prism Robotic Process Automation
- Blue Prism Tool Features Comparison (5.0 Vs 6.2 )
- Blue Prism Tool Architecture
- Blue Prism Component Architecture
- Blue Prism Installation
- Blue Prism Tool Configuration With Database
- Blue Prism Tool Demo

### Process Modelling

- Understanding Process Studio
- Understanding Process Studio Component
- Running a Process
- Basic Skills
- Process Validation
- Decision Stage
- Calculation Stage
- Data Items
- Circular Paths
- Changing run time value
- Set Next Stage
- BreakPoints
- Collections and loops
- Layers of Logic

### Advancing Blue Prism

- Understanding Control Room v6.2
- Understanding Blue Prism Resource Client
- Understanding Web Services v6.2
- Understanding Credentials Manager v6.2
- Understanding Release Manager
- Understanding Case Management
- Understanding Schedulers
- Understanding Log Management
- Understanding System Manager
- Case study walkthrough
- BOT deployment and best practices
- RPA best practices
- Blue Prism Live Project Assignments

### Object Modeling

- Understanding Object Studio
- Understanding Object Studio Component
- Understanding VBO
- Text Automation
- Work Queue
- Files & Folders Automation
- Email Automation
- Advance Window Automation v6.2
- Advance Web Automation v6.2
- Advance Surface Automation v6.2
- Advance Tesseract OCR v6.2
- Control Room Execution
- Other Advance VBO

### Blue Prism Robot Installation & Configuration

- Understanding Blue Prism Robot
- Understanding Blue Prism Robot Structure
- Installing Blue Prism Robot
- Blue Prism Robot Logging
- Connecting Blue Prism Robot to Orchestrator

### Process Modelling Advance

- Page
- Page References
- StartUp Parameters
- Data item Visibility
- Understanding Error Handling
- Control Room Process Execution

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# RPA Certification Courses

## 21. UiPath

### UiPath Fundamentals

- UiPath - Robotic Process Automation Introduction
- UiPath Platform Architecture
- UiPath Platform Components
- UiPath Tool Editions & Versions
- UiPath Tool Hardware & Software Requirements
- UiPath Tool Installation
- UiPath Tool Demo

### Understanding UiPath Development Studio

- Understanding UiPath Studio
- Understanding UiPath Project
- Understanding UiPath Project Structure
- Create a Basic flowchart
- UiPath Activities
- UiPath Activities Practical
- UiPath Automation Debugging
- UiPath Variable Panel & Management
- UiPath Variable Practical
- UiPath Arguments Panel & Management
- UiPath Arguments Practical

### UiPath Process Execution & Orchestrator

- Understanding UiPath Orchestrator
- UiPath Orchestrator Console Overview
- UiPath Orchestrator Installation & Configurations
- Connecting the Local Robot to Orchestrator
- Creating Environments
- Configuring Mail Options
- Configuring Security Options
- Deploying & Monitoring Process Executed By Multiple Robots
- Managing Package Versions
- Managing & Stopping Process
- UiPath Studio Practical Scenario & Assignments : Set 12
- UiPath Schedulers
- Understanding & Managing Logs
- UiPath Assets Management
- UiPath Queues
- UiPath Audit Management
- UiPath User Management
- UiPath Studio Practical Scenario & Assignments

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# Cloud Certification Courses

Security

**Azure Training 22**


**Developing MS Azure Solutions & Implementing**

Duration: 40 Hrs




**Azure Admin 23**


**MS Azure Infrastructure & Deployment, Integration & Security**



**Azure Developer 24**

**MS Azure Developer Core & Advanced Solutions**



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# Cloud Certification Courses

Security

**Azure Architect**  
**25**  
Microsoft Azure Architect Technologies & Design  


**AWS Architect**  
**26**  
AWS Training  
Duration : 40 hrs  


**Virtualization Engineer**  
**27**  
VMWare  
Duration : 40 hrs  


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**Analytics**  
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# Cloud Certification Courses

## 22. Microsoft Azure Training

### Developing Microsoft Azure Solutions

- **Module 1: Overview of the Microsoft Azure Platform**
- **Module 2: Building Application Infrastructure in Azure**
- **Module 3: Hosting Web Applications on the Azure Platform**
- **Module 4: Storing SQL Data in Azure**
- **Module 5: Designing Cloud Applications for Resiliency**
- **Module 6: Storing Tabular Data in Azure**
- **Module 7: Storing and Consuming Files from Azure Storage**
- **Module 8: Designing a Communication Strategy by Using Queues and Service Bus**
- **Module 9: Automating Integration with Azure Resources**
- **Module 10: Securing Azure Web Applications**

### Implementing Microsoft Azure Infrastructure Solutions

- **Module 1: Introduction to Azure**
- **Module 2: Implementing and managing Azure networking**
- **Module 3: Implementing virtual machines**
- **Module 4: Managing virtual machines**
- **Module 5: Implementing Azure App services**
- **Module 6: Planning and implementing storage, backup, and recovery services**
- **Module 7: Planning and implementing Azure SQL Database**
- **Module 8: Implementing PaaS cloud services**
- **Module 9: Implementing Azure Active Directory**
- **Module 10: Managing Active Directory in a hybrid environment**
- **Module 11: Implementing Azure-based management and automation**

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# Cloud Certification Courses

## 23. Microsoft Certified Associate: Azure Administrator

### 1. Manage Subscriptions and Resources

- Module 1: Managing Azure Subscriptions
- Module 2: Access Management for Cloud Resources
- Module 3: Monitoring and Diagnostics
- Module 4: Log Analytics
- Module 5: Azure Resource Manager
- Module 6: Azure Tips, Tricks, and Tools

### 2. Implementing and Managing Storage

- Module 1: Overview of Azure Storage
- Module 2: Storage Services
- Module 3: Securing and Managing Storage
- Module 4: Storing and Accessing Data
- Module 5: Monitoring Storage

### 3. Deploying and Managing Virtual Machines

- Module 1: Overview of Azure Machines
- Module 2: Creating Virtual Machines
- Module 3: Deploying Virtual Machine Images
- Module 4: Configuring Virtual Machines
- Module 5: Configuring Availability & Extensibility
- Module 6: Managing & Monitoring Virtual Machines

### 4. Configuring and Managing Virtual Networks

- Module 1: Azure Virtual Networks
- Module 2: Azure DNS
- Module 3: Securing Virtual Network Resources
- Module 4: Connecting Virtual Networks



# Cloud Certification Courses

## 24. Microsoft Certified Associate: Azure Developer

### 1. Select the appropriate Azure technology development solution

- Module 1: Select an appropriate compute solution
- Module 2: Design for hybrid technologies
- Module 3: Select an appropriate storage solution

### 2. Develop for Azure Storage

- Module 1: Develop solutions that use Azure Storage tables
- Module 2: Develop solutions that use Azure Cosmos DB storage
- Module 3: Develop solutions that use file storage
- Module 4: Develop solutions that use a relational database
- Module 5: Develop solutions that use Microsoft Azure Blob storage
- Module 6: Develop for caching and content delivery solutions

### 3. Develop Azure Platform as a Service Solutions

- Module 1: Creating App Service Web Apps
- Module 2: Creating mobile apps
- Module 3: Creating an app service Logic App
- Module 4: Creating an app or service that runs on Service Fabric
- Module 5: Creating Azure Functions
- Module 6: Scheduling bulk operations
- Module 7: Create solutions that use Azure Kubernetes Service
- Module 8: Developing apps for Azure Media Services

### 4. Implement Security in Azure Development Solutions

- Module 1: Implementing authentication
- Module 2: Implementing access control
- Module 3: Implementing secure data solutions



# Cloud Certification Courses

## 25. Microsoft Certified Associate: Azure Solution Architect

### 1. Deploying and Configuring Infrastructure

- Module 1: Managing Azure Subscriptions & Resources
- Module 2: Implementing & Managing Storage
- Module 3: Deploying & Managing Virtual Machines (VMs)
- Module 4: Configuring & Managing Virtual Networks
- Module 5: Managing Identities

### 2. Implementing Workloads & Security

- Module 1: Evaluating & Performing Server Migration to Azure
- Module 2: Implementing & Managing Application Services
- Module 3: Implementing Advanced Virtual Networking
- Module 4: Securing Identities
- Module 5: Monitoring Storage

### 3. Understanding Cloud Architect Technology Solutions

- Module 1: Selecting Compute and Storage Solutions
- Module 2: Hybrid Networking
- Module 3: Measuring Throughput and Structure of Data Access

### 4. Creating and Deploying Apps

- Module 1: Creating Web Applications using PaaS
- Module 2: Creating Apps and Services Running on Service Fabric
- Module 3: Using Azure Kubernetes Service
- Module 4: Implementing Authentication & Secure Data

### 5. Developing for the Cloud

- Module 1: Developing Long-Running Tasks & Distributed Transactions
- Module 2: Configuring a Message-Based Integration Architecture
- Module 3: Developing for Asynchronous Processing
- Module 4: Developing for Autoscaling
- Module 5: Developing Azure Cognitive Services Solutions



# Cloud Certification Courses

## 26. AWS Architect

### Identity Access Management (IAM)

- User Creation
- Group Creation
- Roles
- Policy
- Encryption3
- Account settings
- Activation MFA

### AWS Object Storage S3, Glacier and CDN

- S3 Buckets
- Versioning
- Cross Region Replication
- Lifecycle Management & Glacier
- Security & Encryption
- CloudFront CDN
- Storage Gateway
- Snowball
- Transfer Acceleration
- Static website using S3

### Elastic Compute Cloud (EC2)

- Launching EC2 Instances
- EBS Volumes
- Upgrading EBS Volumes
- AMI
- Instance Volume Vs EBS
- Security Groups
- Elastic Load Balancer
- CloudWatch
- CLI & Regions
- EC2 Bootstrap Scripts
- Ec2 Metadata
- Autoscalling
- Placement Groups
- EFS
- Lambda
- Elastic IP

### Databases RDS

- DynamoDB
- RedShift

### VPC

- Create Custom VPC
- Network Address Translation NAT
- NACL VS Security Groups
- VPC Flow Logs
- NAT & Bastion
- VPC end points

### Route 53 DNS

- Register A Domain Name
- Simple Routing Policy
- Weighted Routing Policy
- Latency Routing Policy
- Failover Routing Policy
- Geolocation Routing Policy
- Multivalue Routing

### Application Services

- Elastic Transcoder
- Kinesis



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# Cloud Certification Courses

## 27. Virtualization Engineer (VMware)

### Course Objectives

- Describe the software-defined data center
- Explain the vSphere components and their function in the infrastructure
- Deploy an ESXi host
- Deploy VMware vCenter® Server Appliance™
- Use a local content library as an ISO store and deploy a virtual machine
- Describe vCenter Server architecture
- Use vCenter Server to manage an ESXi host
- Configure and manage vSphere infrastructure with VMware Host Client™ and VMware vSphere® Web Client
- Describe virtual networks with vSphere standard switches
- Configure standard switch policies
- Use vCenter Server to manage various types of host storage: VMware vSphere® VMFS, NFS, iSCSI, and RDM
- Examine the features and functions of Fibre Channel and VMware vSAN™
- Manage virtual machines, templates, clones, and snapshots

### Course Objectives

- Create, clone, and deploy a vApp
- Describe and use the content library
- Migrate virtual machines with VMware vSphere® vMotion®
- Use VMware vSphere® Storage vMotion® to migrate virtual machine storage
- Monitor resource usage and manage resource pools
- Use esxtop to identify and solve performance issues
- Discuss the VMware vSphere® High Availability cluster architecture
- Configure vSphere HA

### Course Module

- Module 1: Course Introduction
- Module 2: Introduction to vSphere and the Software Defined Data Center
- Module 3: Creating Virtual Machines
- Module 4: vCenter Server
- Module 5: Configuring and Managing Virtual Networks
- Module 6: Configuring and Managing Virtual Storage
- Module 7: Virtual Machine Management
- Module 8: Resource Management and Monitoring
- Module 9: vSphere HA, vSphere Fault Tolerance, and Protecting Data
- Module 10: vSphere DRS
- Module 11: vSphere Update Manager






# Cybersecurity Certification Courses

**Ethical Hacking**  
**28**

**Certified Ethical Hacking**




**CS Analyst**  
**29**

**Cyber Security Analyst**



**CISA**  
**30**

**Certified Information Systems Auditor**



28

## Ethical Hacking

- Introduction to Ethical Hacking
- Foot printing and Reconnaissance
- Scanning Networks
- Enumeration
- System Hacking
- Malware Threats
- Sniffing
- Social Engineering
- Denial of Services
- Session Hijacking
- Hacking Web servers
- Vulnerability Analysis
- Hacking Web Applications
- SQL Injection
- Hacking Wireless Networks
- Evading IDS, Firewalls and Honey pots
- Hacking Mobile Application Platforms
- IoT Hacking
- Cloud Computing
- Cryptography

29

## CS Analyst

- Security Operations Centre Concepts
  - SOC Infrastructure
  - Log management
- SIEM (Security Information & Event Management)
  - SIEM Architecture
  - Logs and Events
  - Log Baselining
  - Aggregation and normalization
  - Event Collection and Event Correlation
  - Correlation Rules
  - AlienVault SIEM
- Incident Management
- Incident Response Plan
- Incident Response Handling Steps
- Incident Response Team

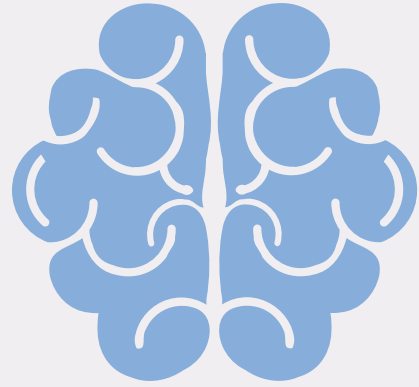
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## CISA

- IT Governance/ Management
- Information Systems Implementation/ Operations
- Information Asset Security and Control
  - Information Asset Security Frameworks, Standards, and Guidelines
  - Identity and Access Management
  - Network and End-Point Security
  - Data Classification
  - Data Encryption
  - Public Key Infrastructure
  - Virtualized Environments
- Security Event Management
- Business Resilience
  - Business Impact Analysis (BIA)
  - System Resiliency
  - Data Backup, Storage, and Restoration
  - Business Continuity Plan (BCP)
  - Disaster Recovery Plans (DRP)



Thank You



**Tuhin AI Advisory Initiative**

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