

Microsoft Azure Cloud Engineering

Build enterprise-ready Azure cloud skills across identity, networking, apps, data, security, architecture and infrastructure as code.



8 weeks

DURATION

76 hours

GUIDED LEARNING

2 projects

PORTFOLIO

ABOUT THE ACADEMY

Practical learning. Work you can demonstrate.

Brightnest AI Academy brings live instruction, guided practice and career preparation together for individuals and teams.

23

FOCUSED COURSES

6

FLAGSHIP PROGRAMMES

Noida

ACADEMY LOCATION

Our approach

1

Learn

Understand concepts through live instruction and current examples.

2

Build

Apply learning through labs, assignments and guided projects.

3

Explain

Document decisions, results, trade-offs and limitations.

4

Prepare

Connect completed work with CVs, interviews and workplace conversations.

PEOPLE BEHIND THE ACADEMY

Meet Ranjeet Kumar



ACADEMY ADVISER

Ranjeet Kumar

Innovation & Growth Leader

15+ years

Experience in data, artificial intelligence and machine learning leadership.

Areas of expertise

- Data science and machine learning solution leadership
- AI product strategy and scalable data platforms
- Technology team leadership and mentorship
- Practical AI and data adoption for business transformation

Education

Master of Information Systems, Anna University, Chennai
Bachelor of Computer Science Engineering



COURSE OVERVIEW

Build your next set of skills

Build and manage enterprise cloud solutions on Microsoft Azure. Progress from Azure Foundations, Identity and Governance to Azure Cloud Engineering Capstone through guided labs, assessed projects, and portfolio evidence.

Who this is for

IT professionals, administrators and developers building Microsoft Azure cloud skills.

Before you begin

Learners should understand basic networking and operating-system concepts. No prior Azure experience is required.

Azure capability is demonstrated by secure identity, governed resources, resilient applications, repeatable deployment, cost awareness, and operational evidence-not console screenshots.



LEARNING OUTCOMES

What you will be able to do

01

Create a governed Azure landing zone starter with RBAC, policy and tagging.

02

Build a segmented VNet architecture with secure application and data subnets.

03

Deploy a web API using managed app, serverless and container patterns and compare operations.

04

Create a secure storage/database design and implement backup/access controls.

05

Design a resilient multi-tier workload with recovery objectives and failover plan.

06

Deploy a repeatable environment using Bicep or Terraform through CI/CD.

07

Build and defend a production-ready Azure solution aligned to well-architected principles.



CURRICULUM

Course curriculum

8 modules · 8 weeks · 76 hours of guided learning

01 Azure Foundations, Identity and Governance

6 hours

TOPICS

Subscriptions · Resource groups · Regions · Microsoft Entra ID · RBAC · Managed identities · Policies · Tags · CLI/PowerShell concepts

PRACTICAL WORK

Create a governed Azure landing zone starter with RBAC, policy and tagging.

Tools: Microsoft Azure, Entra ID, Azure CLI

Assessment: Foundations checkpoint

Portfolio evidence: Azure governance baseline

02 Azure Networking

10 hours

TOPICS

VNets · Subnets · NSGs · Routing · Peering · DNS · Load balancers · Application Gateway concepts · Private endpoints · Connectivity

PRACTICAL WORK

Build a segmented VNet architecture with secure application and data subnets.

Tools: Azure VNet, NSG, Load Balancer/Application Gateway

Assessment: Networking lab

Portfolio evidence: Azure network design



CURRICULUM

Course curriculum

8 modules · 8 weeks · 76 hours of guided learning

03 Compute, Apps, Containers and Serverless

10 hours

TOPICS

Virtual Machines · App Service · Functions · Container Apps/AKS concepts · Scaling · Images · Workload placement decisions

PRACTICAL WORK

Deploy a web API using managed app, serverless and container patterns and compare operations.

Tools: Azure VM, App Service, Functions, AKS/Container Apps concepts

Assessment: Compute review

Portfolio evidence: Azure deployment comparison

04 Storage and Data Services

8 hours

TOPICS

Blob Storage · Files/disks concepts · Azure SQL · Cosmos DB concepts · Redundancy · Backup · Encryption · Access tiers · Private access

PRACTICAL WORK

Create a secure storage/database design and implement backup/access controls.

Tools: Azure Storage, Azure SQL, Cosmos DB concepts

Assessment: Data services lab

Portfolio evidence: Azure data layer

CURRICULUM

Course curriculum

8 modules · 8 weeks · 76 hours of guided learning

05 Architecture, Availability and Business Continuity

8 hours

TOPICS

Availability zones/sets · Scale sets · Traffic distribution · Backup · Site recovery concepts · RTO/RPO · Resilient architecture

PRACTICAL WORK

Design a resilient multi-tier workload with recovery objectives and failover plan.

Tools: Azure architecture services

Assessment: Architecture case

Portfolio evidence: Azure resilience plan

06 Security, Monitoring and Operations

8 hours

TOPICS

Defender for Cloud concepts · Key Vault · Monitor · Log Analytics · Alerts · Diagnostics · Update/patch strategy · Operational runbooks

PRACTICAL WORK

Configure monitoring, secrets and alerts for a sample application environment.

Tools: Azure Monitor, Log Analytics, Key Vault

Assessment: Operations lab

Portfolio evidence: Azure operational dashboard



CURRICULUM

Course curriculum

8 modules · 8 weeks · 76 hours of guided learning

07 Infrastructure as Code and Automation

10 hours

TOPICS

Bicep/ARM concepts · Terraform · Deployment stacks · GitHub Actions/Azure DevOps integration · Configuration · Policy-as-code · Cost controls

PRACTICAL WORK

Deploy a repeatable environment using Bicep or Terraform through CI/CD.

Tools: Bicep/Terraform, GitHub Actions/Azure DevOps

Assessment: IaC assessment

Portfolio evidence: Automated Azure environment

08 Azure Cloud Engineering Capstone

16 hours

TOPICS

End-to-end design · Identity · Network · Compute · Data · Security · Monitoring · Governance · IaC · Cost · Documentation

PRACTICAL WORK

Build and defend a production-ready Azure solution aligned to well-architected principles.

Tools: Microsoft Azure, IaC, GitHub

Assessment: Capstone presentation

Portfolio evidence: Azure architecture + deployment portfolio

APPLIED PORTFOLIO

Projects you will build

Two portfolio projects supported by guided module work.

PORTFOLIO PROJECT 1

Secure Azure Enterprise Application

Deploy a resilient application with VNet, managed identity, app/data services, monitoring and IaC.

DELIVERABLES

Architecture · Bicep/Terraform · Deployed resources · Operations guide

PORTFOLIO PROJECT 2

Azure Landing Zone Starter

Create a governed baseline for subscriptions and resource groups, identity, policy, networking and logging.

DELIVERABLES

Governance design · IaC · Policy set · Monitoring dashboard

LEARNING EXPERIENCE

Learn, practise and present

- Live instructor-led sessions that connect concepts to real workplace decisions.
- Guided labs and workshops in every module.
- Assignments, checkpoints and practical feedback.
- Portfolio documentation, demonstrations and capstone review.
- Access to recordings and LMS resources according to the published batch policy.
- Career preparation based on completed work and target roles.

Tools you will work with

Microsoft Azure · Entra ID · Azure CLI · Azure VNet · NSG · Load Balancer · Application Gateway · Azure VM · App Service · Functions · AKS · Container Apps concepts · Azure Storage · Azure SQL · Cosmos DB concepts · Azure architecture services

CAREER PREPARATION

Build confidence for interviews

A structured process to connect your learning with your next career step.

01**Role clarity**

Identify roles that fit your background, interests and current skills.

02**Profile readiness**

Review your CV, LinkedIn, GitHub and project summaries.

03**Project proof**

Prepare to demonstrate completed work and explain your decisions.

04**Interview practice**

Practise technical questions, project walkthroughs and interviews.

05**Opportunity updates**

Receive relevant job openings and employer requirements, subject to availability and learner readiness.

Career support helps you prepare. Employment outcomes depend on experience, project quality, interview readiness and market conditions.

LEARNER JOURNEYS

Companies where our learners have been hired

Across the Brightnest AI Academy learner community



Learner employment history across the academy; not a placement guarantee for this course. Names and logos identify employers; they do not imply endorsement or a hiring partnership.

BEFORE YOU ENROL

Your questions, answered

Is the Azure Cloud Engineering course suitable for beginners?

This is an intermediate-level course. Learners should understand basic networking and operating-system concepts. No prior Azure experience is required.

What will I build during the course?

You will complete guided labs in every module and build two portfolio projects: Secure Azure Enterprise Application and Azure Landing Zone Starter. Deliverables include working files or code, documentation, testing or evaluation evidence, and a final presentation.

Which tools and platforms are covered?

Key tools include Microsoft Azure, Entra ID, Azure CLI, Azure VNet, NSG, Load Balancer, Application Gateway, and Azure VM. Additional platforms are introduced in relevant modules through practical tasks, and the toolset may evolve as industry practice changes.

How long does the course take?

The course includes approximately 76 guided learning hours across 8 modules, delivered over 8 weeks.

Which career paths can this course support?

The curriculum supports the development of skills relevant to roles such as Azure Cloud Engineer, Azure Administrator and Solutions Architect. Career outcomes depend on prior experience, project quality, interview readiness and market conditions; employment is not guaranteed.

BEFORE YOU ENROL

Your questions, continued

Will I receive mentor and career support?

The course includes live instruction, lab support, assignment feedback, project reviews and career preparation covering portfolio development, CV writing, LinkedIn profile improvement, and interview guidance.

FEES & ADMISSIONS

Plan your next step

COURSE FEE

INR 35,000 + GST

EMI and easy instalments available

Duration	8 weeks
Level	Intermediate
Learning format	Live mentor-led learning
Batch starts	Expected Saturday / Sunday starts

Check the live Batches page for the next expected weekend. Confirm the exact date, class times and availability with admissions.

Book a free demo class >

+91 73030 11395

brightnestaiacademy.com/batches

A-56, Sector-64, Noida, Uttar Pradesh - 201301