A Report on Hands on Workshop on "Azure Cloud Essentials"
Organized by Department of Computer Science & Engineering (Data Science)
20.04.2024

Submitted by: Mrs. Vidhyashree B, Assistant Professor, Department of Computer Science & Engineering (Data Science)

Co-ordinated by: Mrs. Prudhivi Anuradha, Assistant Professor, Department of Computer Science & Engineering (Data Science) & Mrs. Vidhyashree B, Assistant Professor Department of CSE-DS

Resource Person Details: Mr. Siva Karna, Sr. Software Engineer, Mphasis, IT Service Pvt. Ltd., Bengaluru

Attendance: 55 participants (Internal)

Report Received on 24.04.2024

Mode of Conduct: Offline

Venue: Seminar Hall- A

About the Resource person:

SIVA KARNA An Engineer having 7.5 years of experience in designing & developing applications using Microsoft .Net, Azure, Angular2/8 Frameworks & Big Data Technologies.

- Experience in .net core & web API designing & implementation.
- Experience in the design and implementation of different architecture styles such as N-tier, microservices & Event Driven architecture.
- Experience in designing & developing applications using Azure services such as Cosmos Db, Azure SQLDB, Synapse Analytics (Data Flow, Pipelines, Serverless SQL Warehouse, Querying Data Lake Data etc.), Azure Media Services, Storage Accounts, Azure Redis cache, service fabric (actors, stateless &stateful)
- Experience in implementing serverless apps using Azure Functions.
- Experience in implementing or Configure Log Analytics (Application insights) and Azure Key vault.
- Experience in Distributed Messaging Systems (Apache Rocket MQ, Azure Service bus & Azure Event Grid).
- Experience on Azure Dev Ops CI & CD configurations.
- Knowledge on Azure Data Explorer.
- Ability to adapt quickly to view environments and technologies.
- Good team member, positive attitude and result oriented Self-motivated, quick learner, willing to adapt to new challenges & new technologies.
- Cohesive team worker, having strong analytical, problem solving and interpersonal skills.
- Working as Senior Software Engineer at Mphasis IT Service Pvt. Ltd. Bengaluru from Aug 2020 to till date.
- Worked as TechLead at BizRuntime IT Service Pvt. Ltd. Bengaluru from Sept 2016 to July 2020.

Objective of the Guest Lecture:

- Introduction to cloud computing and Azure
- Cloud computing services
- Azure physical infrastructure
- Azure resources
- Cloud providers
- Azure sandbox activation

The program started at 10:00 AM at Seminar Hall "A", the entire programme was organized by the Co-ordinator: **Mrs Vidhyashree B** Assistant Professor, Department of Computer Science & Engineering (Data Science) and **Dr. S.Kusuma, HOD/CSE(DS)**, delivered the welcome address to the gatherings.

The resource person started the session by extending his hearty thanks to the participants, organizing members, HoD, Principal and Management of MITS Madanapalle for giving his opportunity to share her knowledge and experience in Data Science Applications and Industrial Insights.

The following topics were discussed in the morning session.

1. Application life cycle basics
2. Introduction to cloud computing
3. Benefits of cloud computing
4. Cloud computing services
5. Cloud providers
6. Types of cloud models
7. Introduction to azure
8. Azure accounts
9. Azure services types
10. Azure resources
11. Azure physical infrastructure

The following topics were discussed in the afternoon session.

1. Azure sandbox activation
2. Sandbox subscription
3. Navigation of azure portal
4. Azure storage - blob storage, creation, uploading images and generating sas tokens
5. Azure web apps- creating azure web apps and deploy own website.
6. Azure cosmos db - creation and insert items into cosmos db.

Outcomes of the Guest Lecture:
1. Gained a comprehensive understanding of Introduction to cloud computing and Azure
2. Understood practical applications and real-world cloud computing examples
3. Learnt about Azure sandbox activation, Sandbox subscription, . Navigation of azure portal
4. Acquired valuable insights and perspectives from current Azure web apps
5. Broadened their knowledge in Azure cosmos db

The session was concluded at 12.00AM, followed by a vote of thanks, given by the Coordinator of the Seminar **Mrs Prudhivi Anuradha**, Assistant Professor, Department of Computer Science & Engineering (Data Science), MITS, Madanapalle.