Day 16 Assessment

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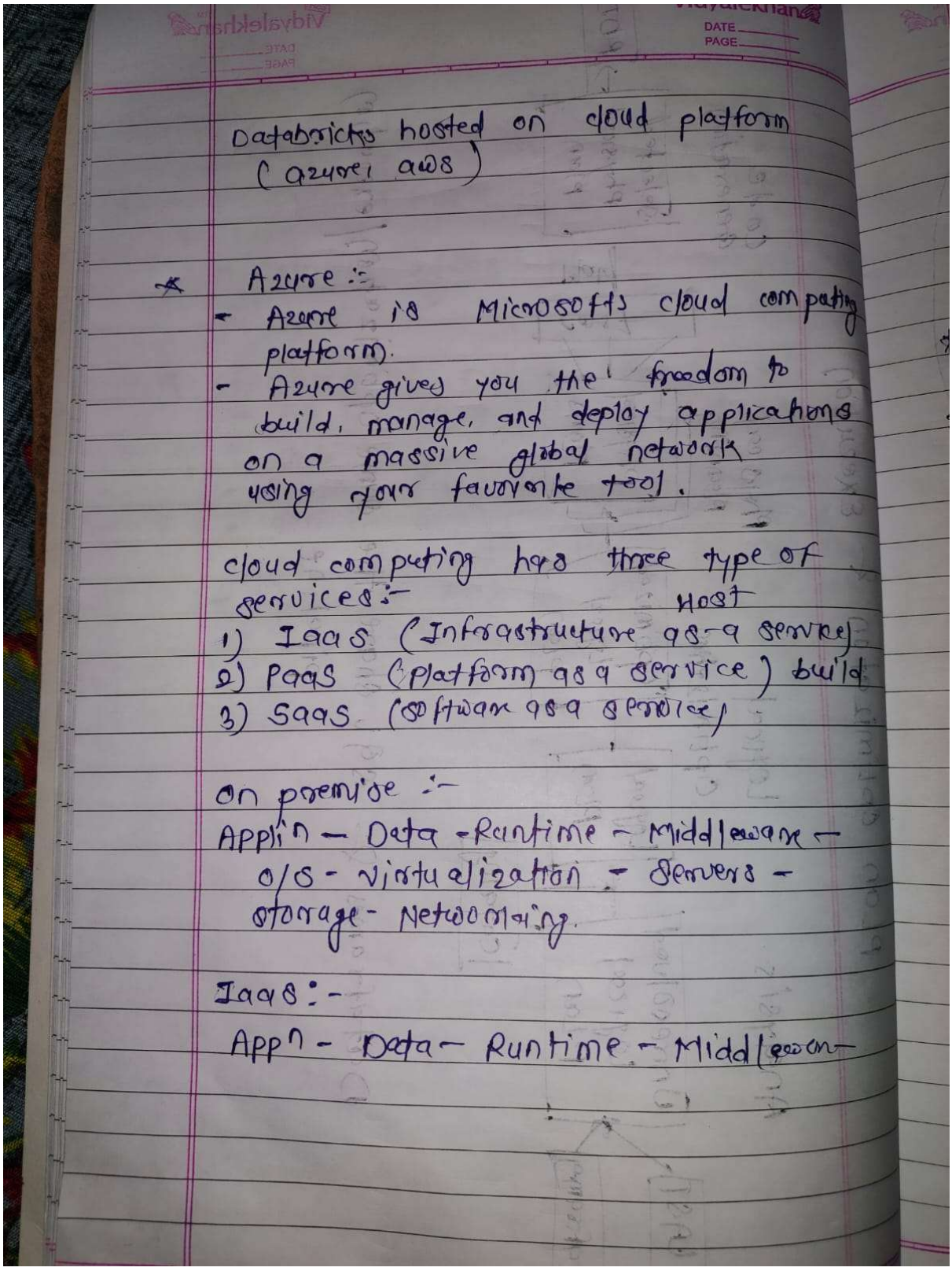
Batch: Data Engineering Batch-1



Databricks hosted on cloud platform (azure, aws)

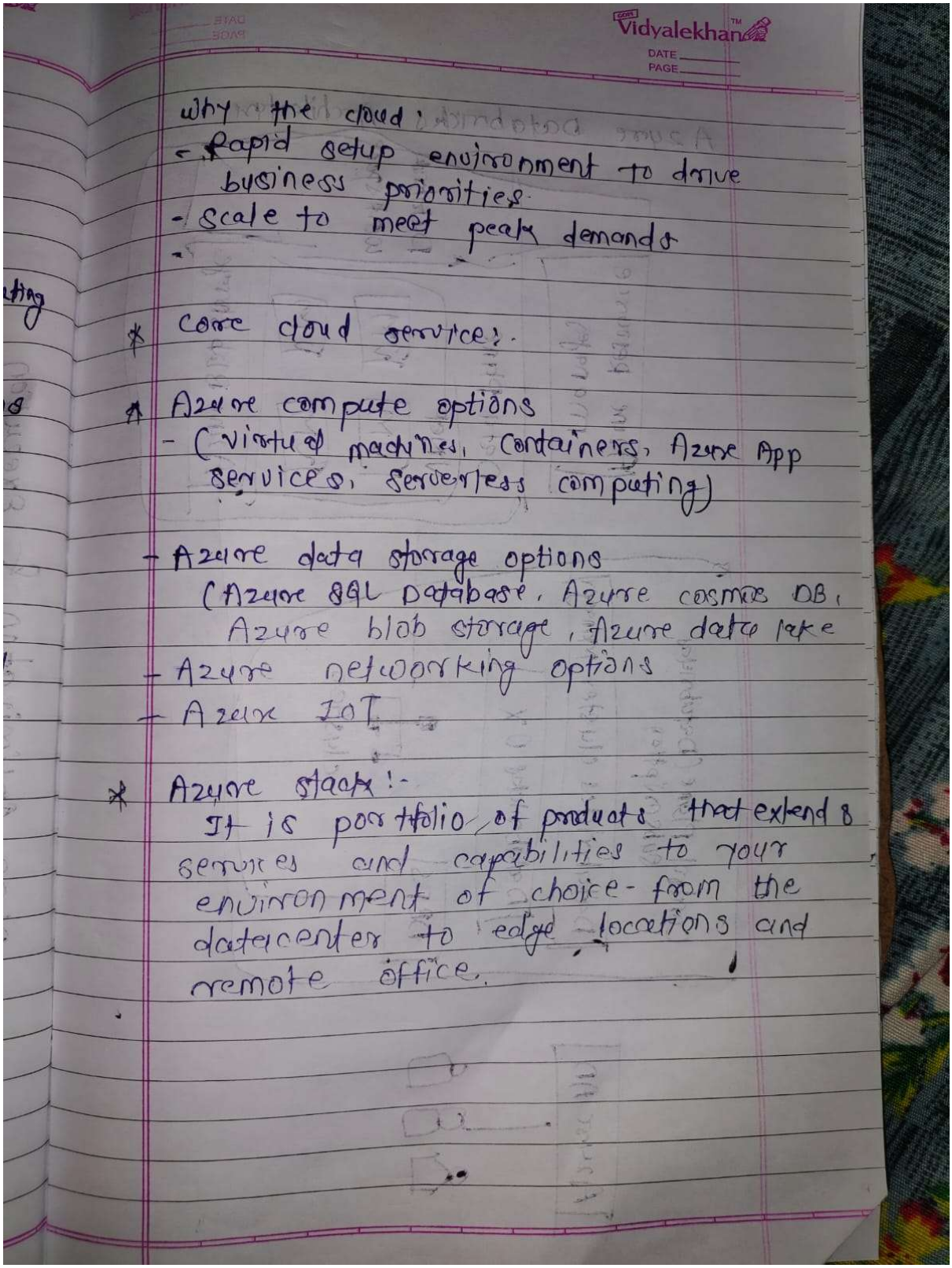
* Azure :-
- Azure is Microsoft's cloud computing platform.
- Azure gives you the freedom to build, manage, and deploy applications on a massive global network using your favorite tool.

cloud computing has three type of services:-
Host
1) Iaas (Infrastructure as a service)
2) Paas (Platform as a service) build
3) Saas (Software as a service)

on premise :-
Appln - Data - Runtime - Middleware - O/S - virtualization - Servers - storage - Networking.

Iaas :-
Appn - Data - Runtime - Middleware -

Day 16 Assessment



Vidyalekhan
DATE
PAGE

why the cloud:
- Rapid setup environment to drive business priorities
- Scale to meet peak demands

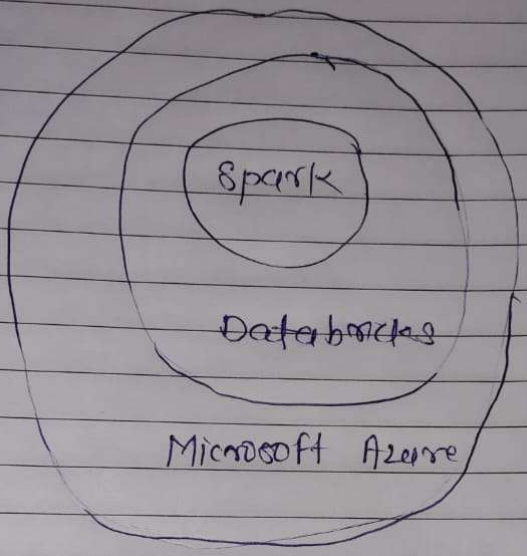
* Core cloud service:.

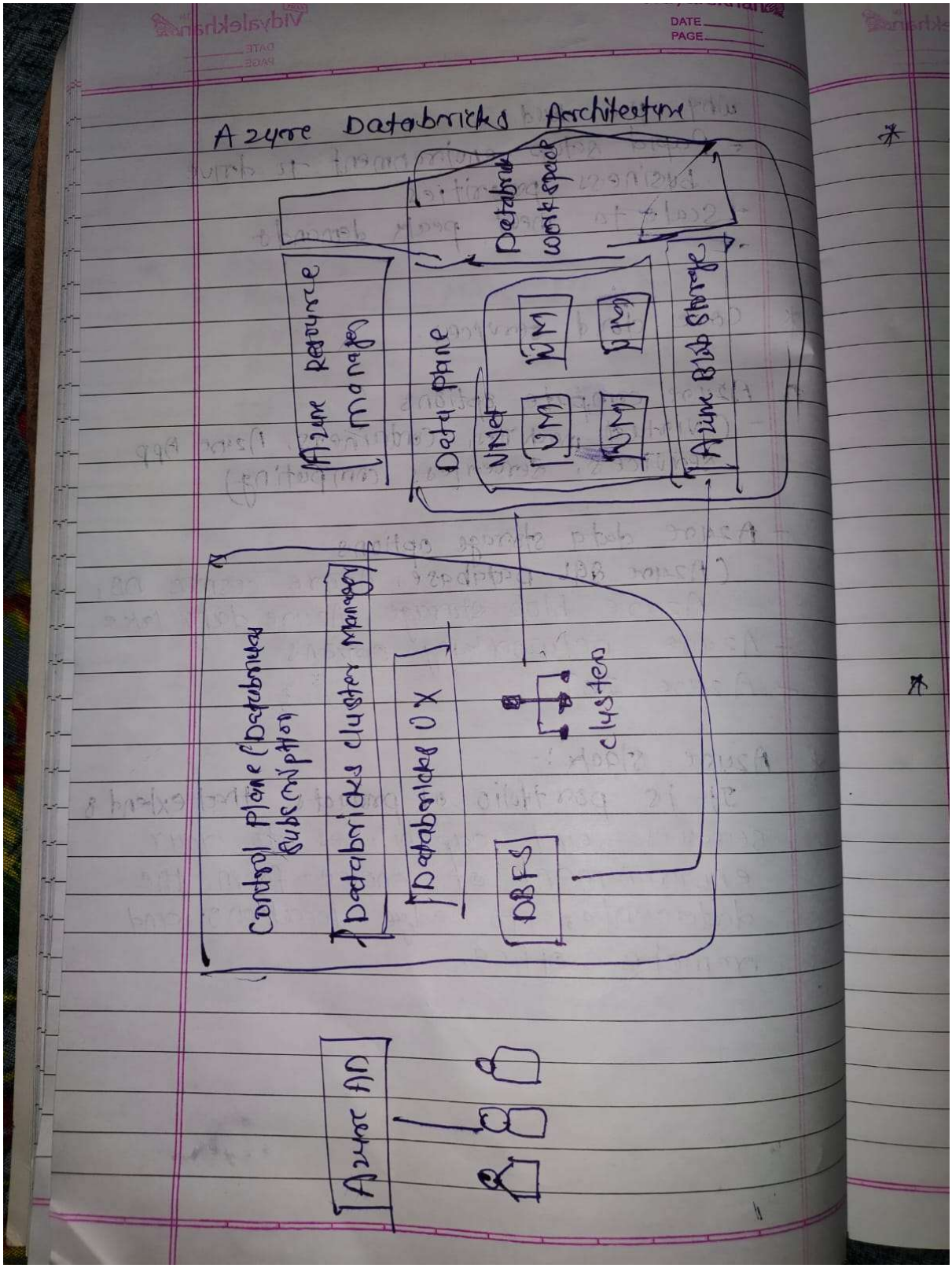
* Azure compute options
  - (virtual machines, Containers, Azure App services, Serverless computing)
  - Azure data storage options
    (Azure SQL Database, Azure cosmos DB, Azure blob storage, Azure data lake
  - Azure networking options
  - Azure IoT

* Azure stack:-
  It is portfolio of products that extends services and capabilities to your environment of choice - from the datacenter to edge locations and remote office.

Day 16 Assessment

* Azure databricks



* Apache spark:-
Apache spark is lightning-fast unified analytics engine for big data processing & machine learning
- 100% open source under Apache licence
- simple ~~data~~ and easy to use API.
- In-memory processing engine
- distributed computing platform

Day 16 Assessment