

A DISCUSSION SESSION IN THE DEPTHES OF DATA



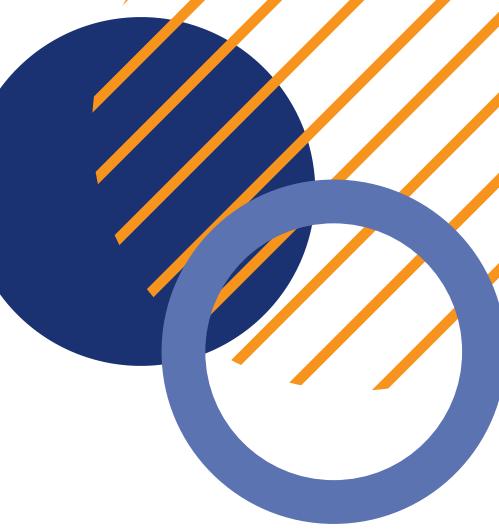
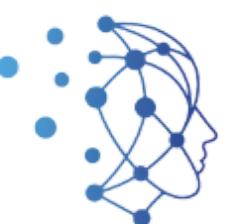
Saleh Alrougi

- BSc in Artificial Intelligence
- Master's student in Data Science
- Professional Experience: Data Analyst & Data Scientist
- Training:
 - Data Engineering with SDA Himma's bootcamps
 - AWS training in collaboration with MCIT (Ministry of Communications and Information Technology)



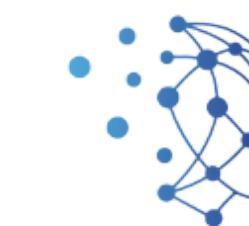
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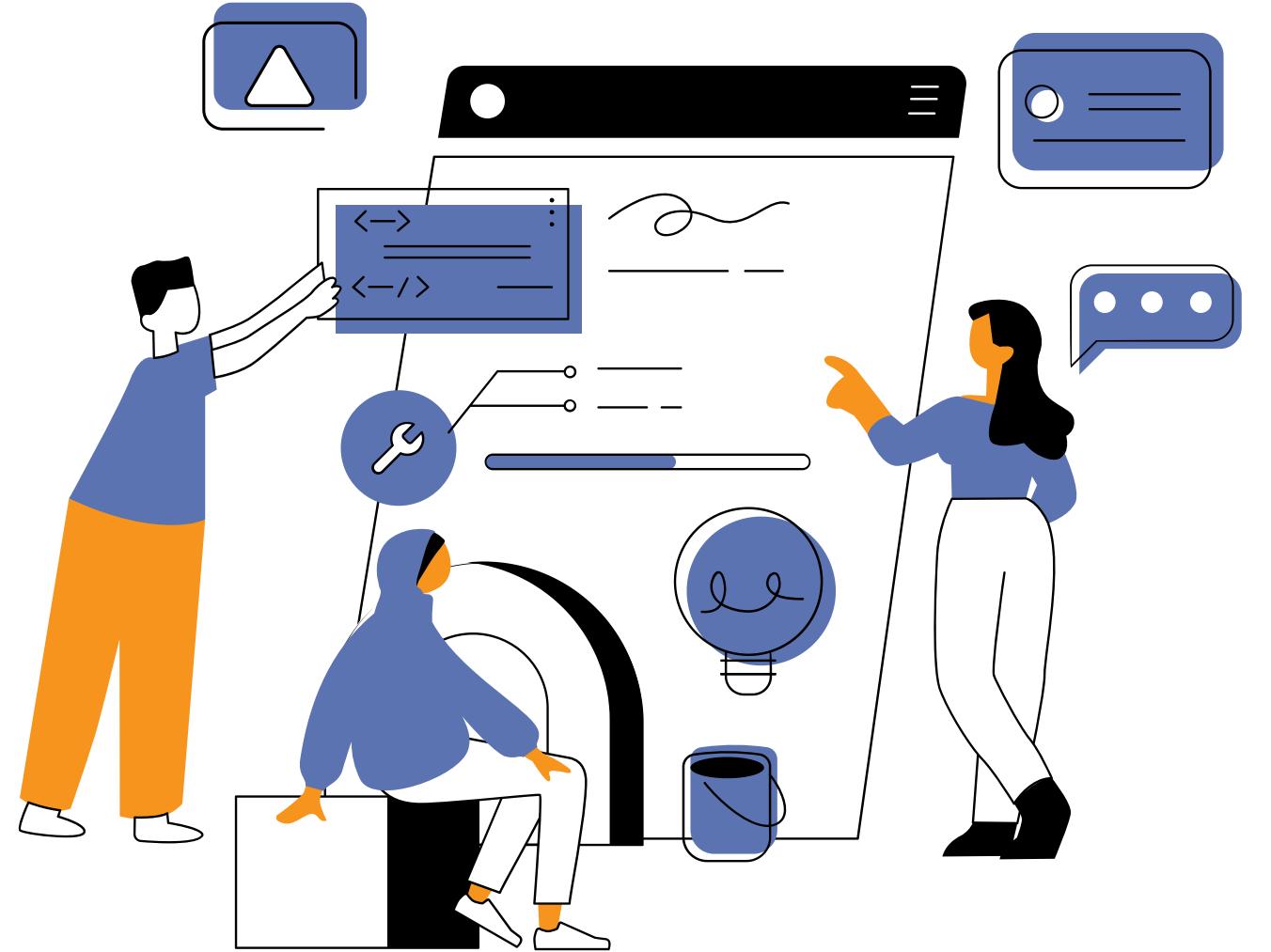
-  **What data mean?**
-  **Benefits**
-  **Differences**
-  **Start point**
-  **Experiences and Advances**





What data mean?





Benefits

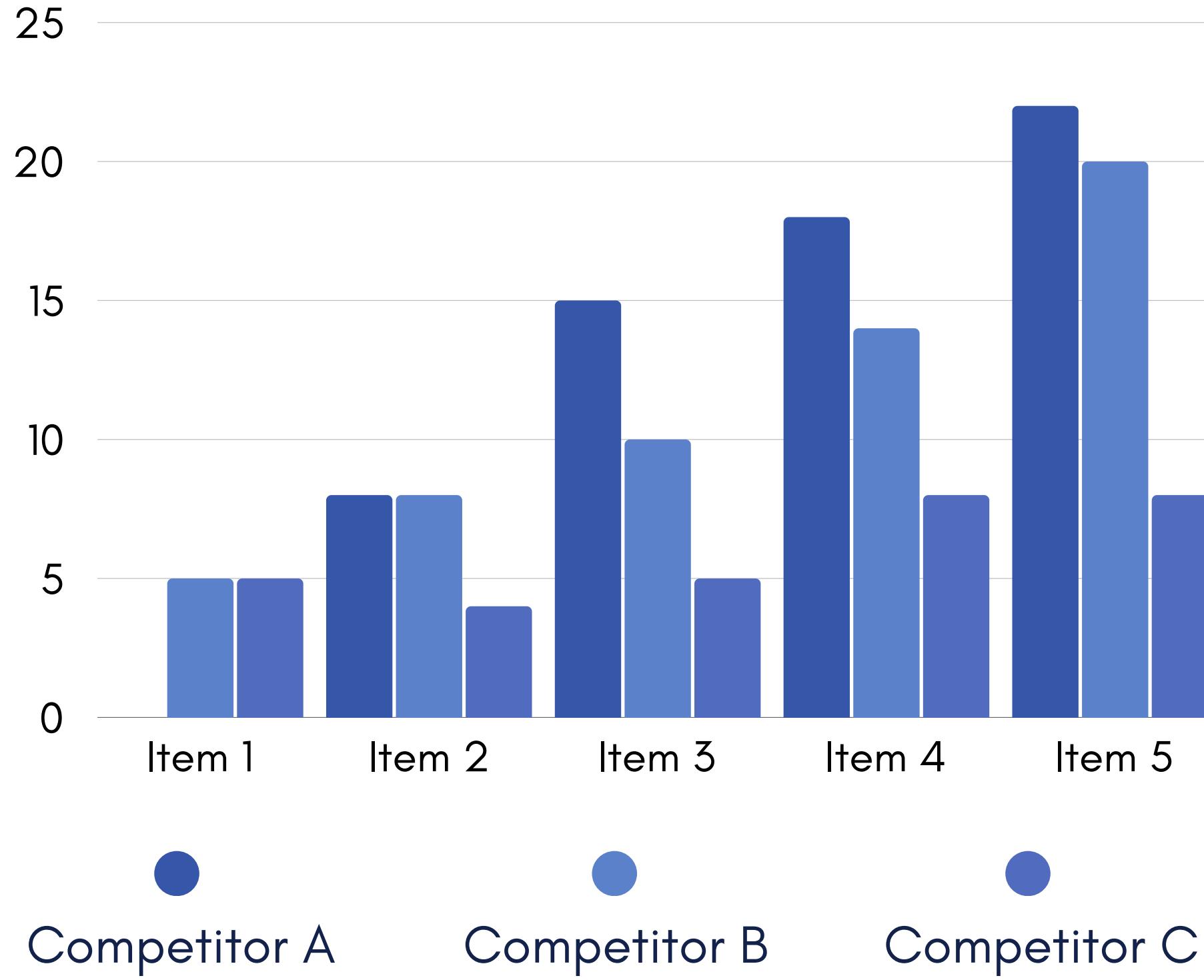
Good understanding

Better decisions

Budling for future



AS DATA ANALYST





AS DATA SCIENTIST

01 Pre-
Processing

Clean - Handling

02 AI MODELS

Based on our data we can
build right AI model

03 Visualize it

Explain the results as story
tell





AS A DATA ENGINEER



Data Storage & Databases

- SQL Databases: MySQL, PostgreSQL, MS SQL Server
- NoSQL Databases: MongoDB, Cassandra, CouchDB
- Data Warehouses: Amazon Redshift, Google BigQuery, Snowflake
- Data Lakes: Amazon S3, Hadoop HDFS, Azure Data Lake Storage



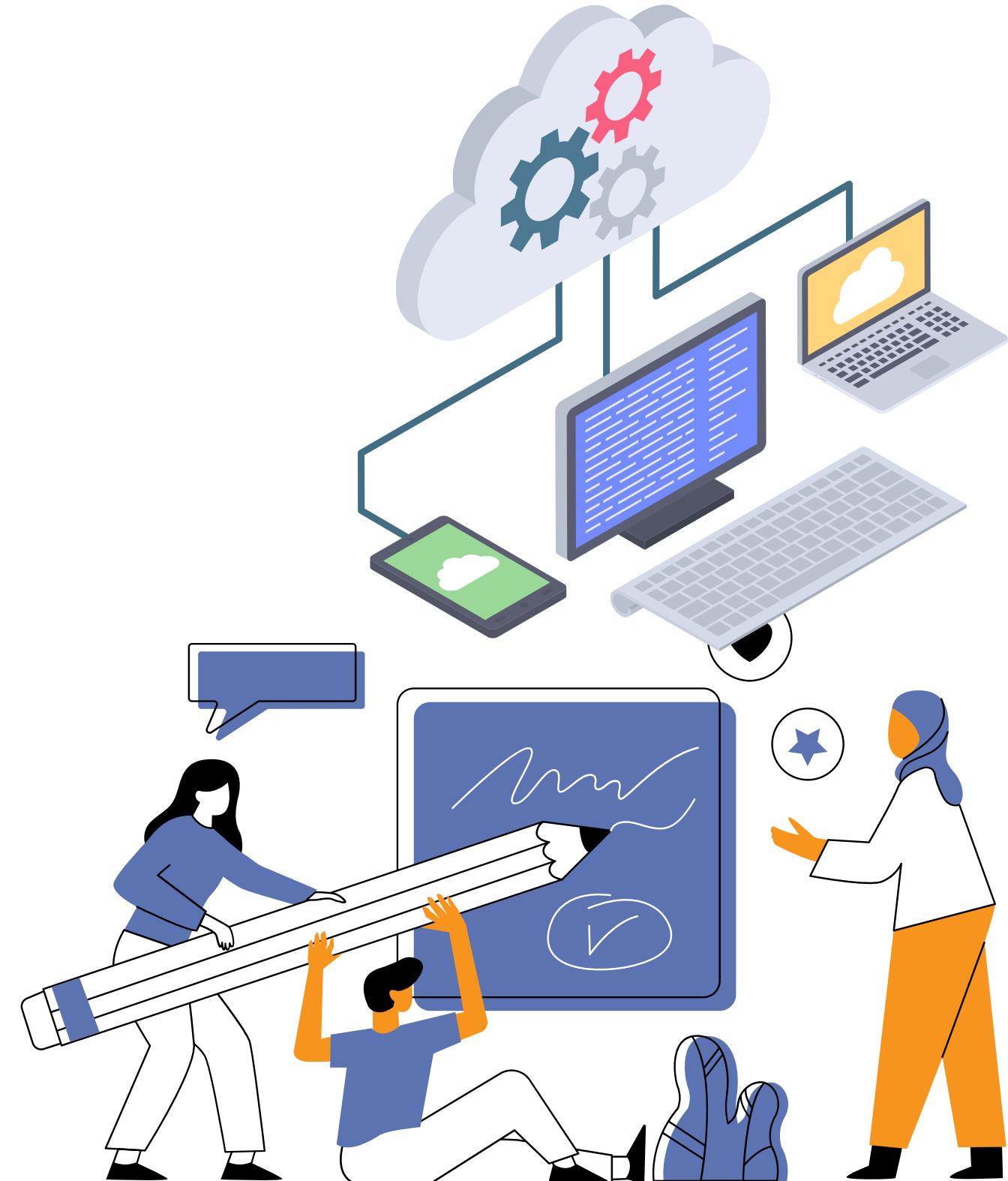
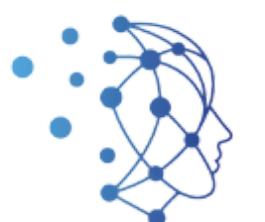
ETL & Data Pipeline Orchestration

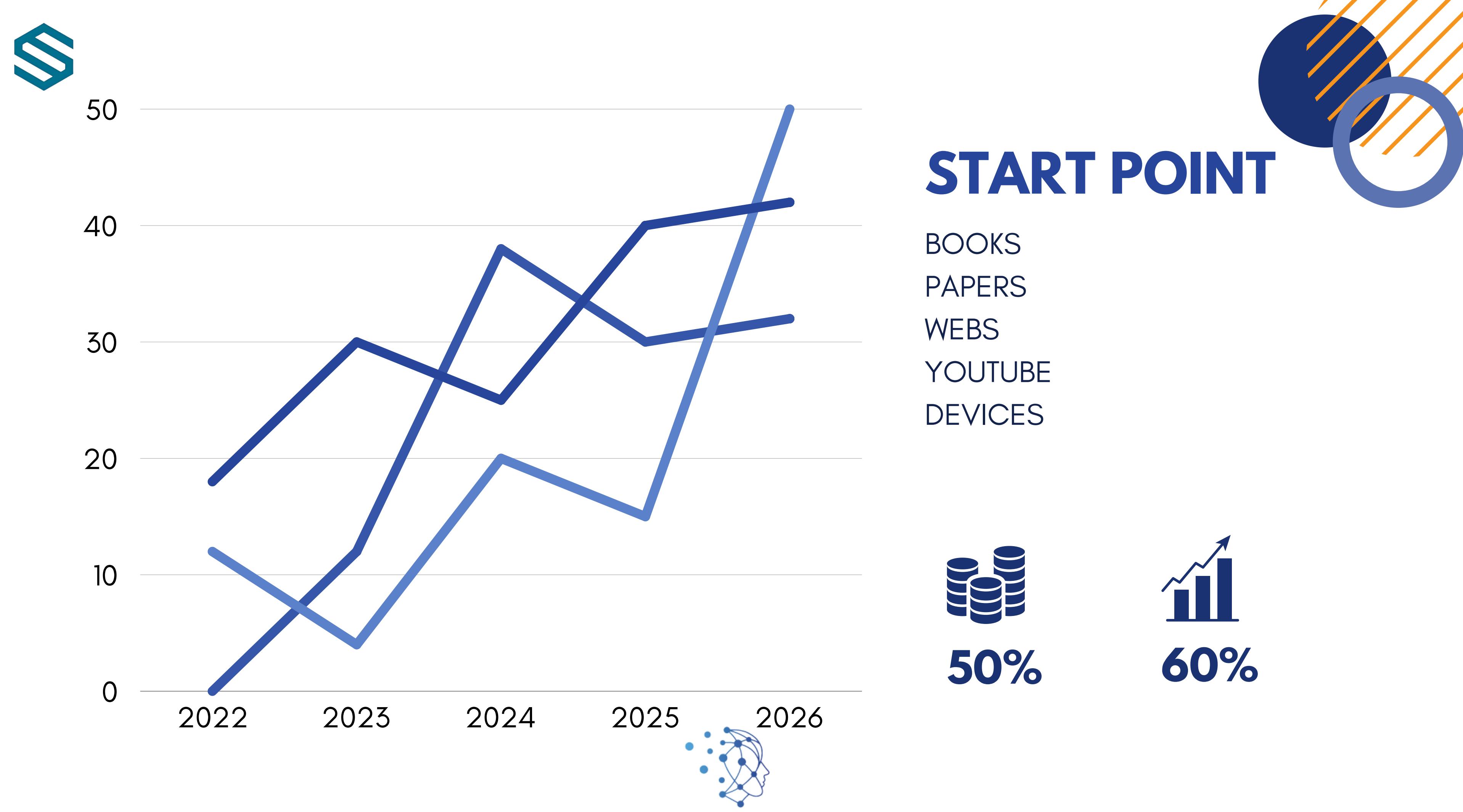
- Apache Airflow, Apache NiFi, Luigi, Dagster, Prefect
- Apache Spark, Apache Flink, Talend, Informatica, AWS Glue
- Apache Kafka, MuleSoft, Fivetran, Stitch



Cloud Platforms & Data Processing Frameworks

- AWS, Google Cloud Platform (GCP), Microsoft Azure
- Apache Spark, Apache Flink, Apache Beam
- Pandas, Dask, dbt (Data Build Tool), Docker, Kubernetes, Git, GitHub/GitLab/Bitbucket







Experiences and Advances



 datacamp

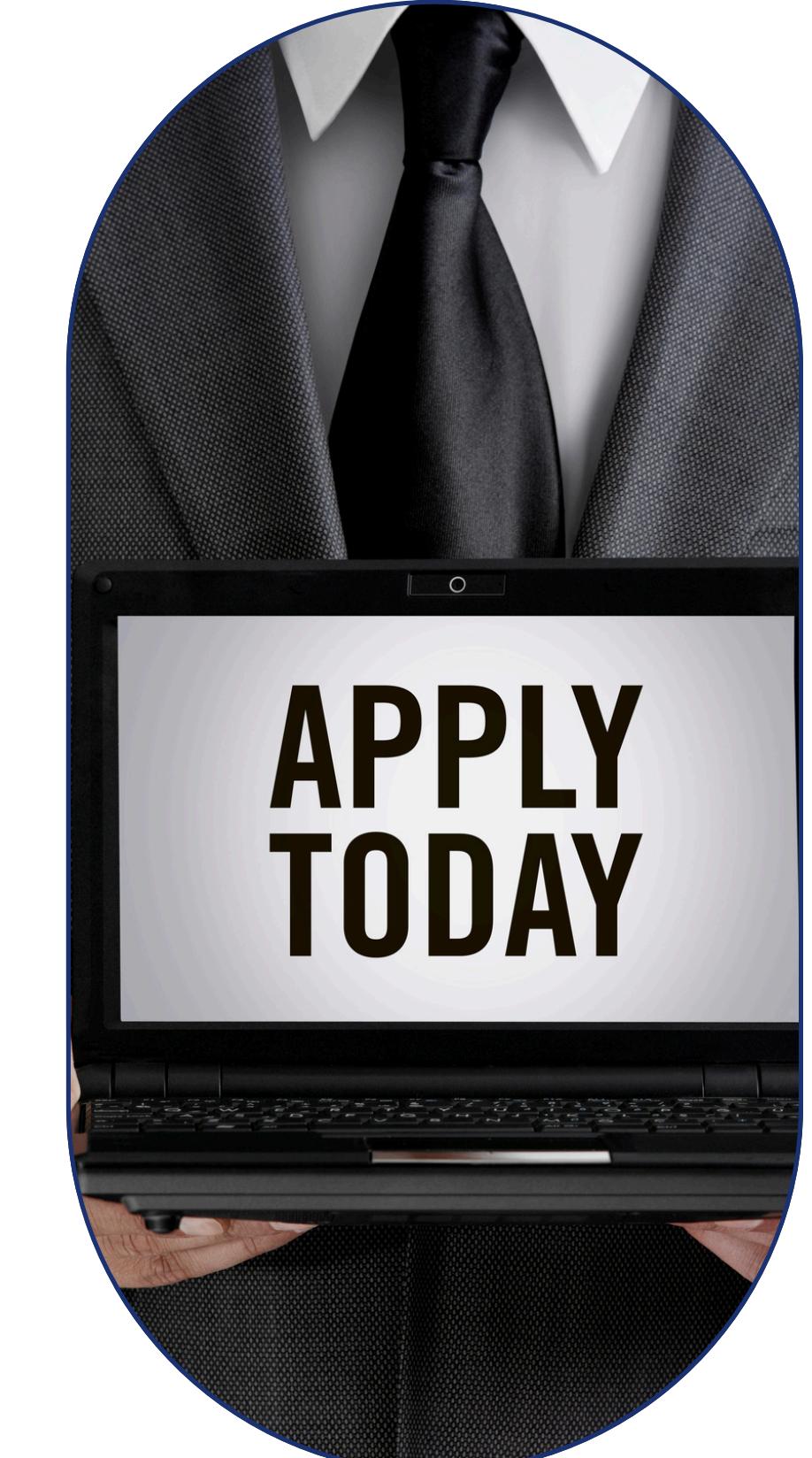
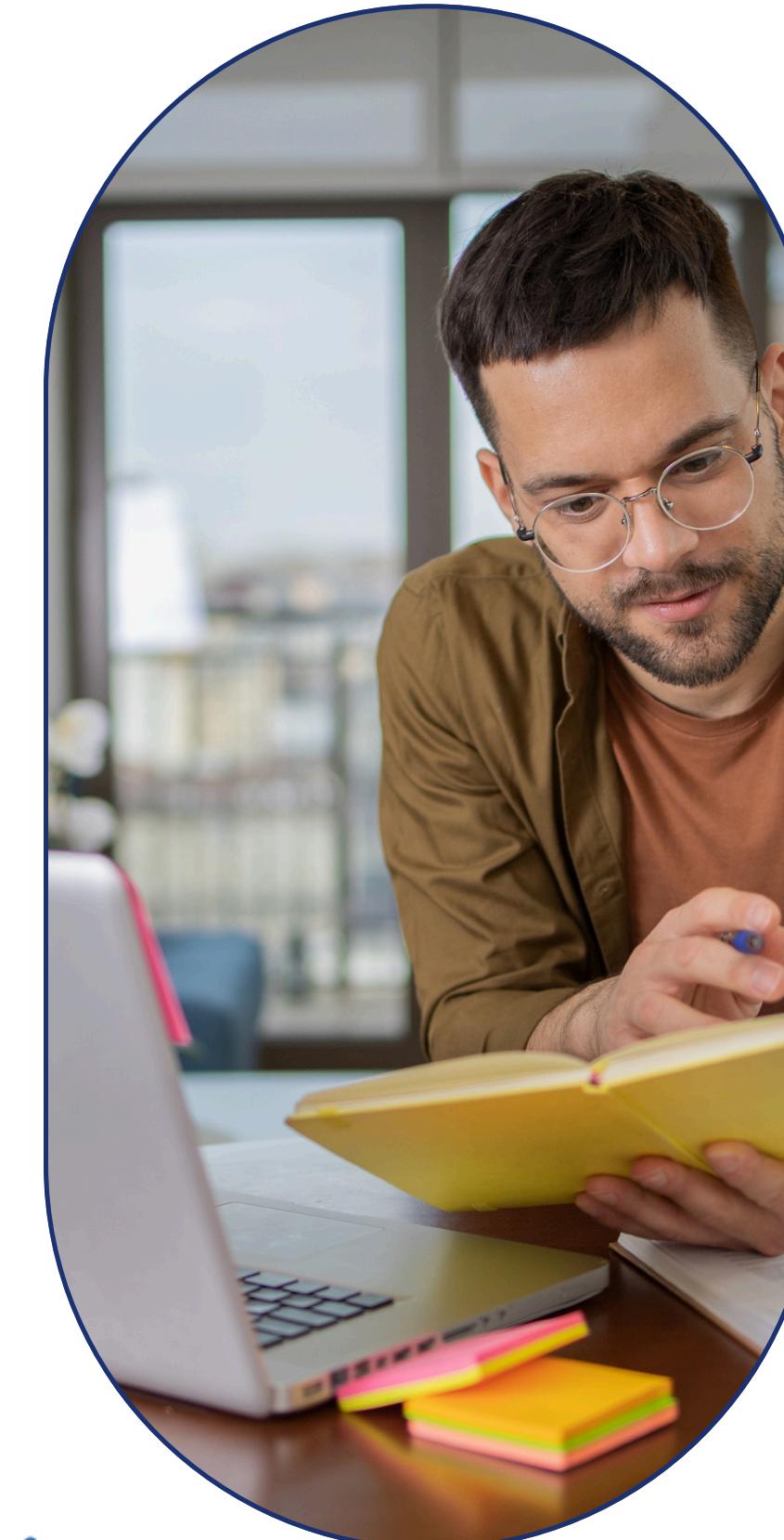


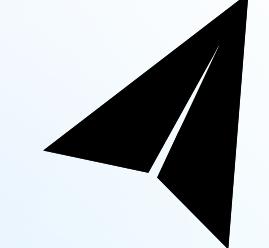
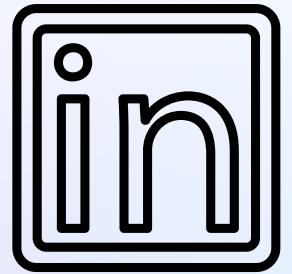
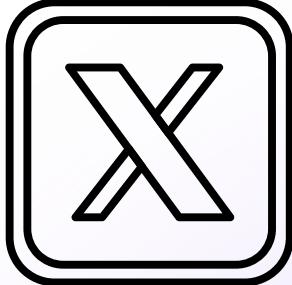
SDAIA
الهيئة السعودية للبيانات
والذكاء الاصطناعي
Saudi Data & AI Authorit



الأكاديمية السعودية الرقمية
SAUDI DIGITAL ACADEMY

أكاديمية طويق
Tuwaiq Academy





THANK YOU

