

AFRICA DATA SCHOOL X MICROSOFT CURRICULUM		
Date	TOPIC	Real Industry Challenges
Week 1	Introduction	
	ADS Platform & GIT	
	Telecom churn analysis	Hands-on experience project
	Python	
Week 2	Data Analysis	
	Numpy	
	Database & SQL	
	Pandas	
Week 3	Data visualization	
	Matplotlib	
	Seaborn	
	Retail Analysis	Hands-on experience project
Week 4	Advanced Data Visualizations	
	Plotly	
	Mapbox	
	Streamlit	
Week 5	Dashboard & ML	
	Dash	
	Real-Time Crypto Analysis App	Hands-on experience project
	Machine Learning Pipeline introduction	
Week 6	Machine Learning Pipeline	
	Exploratory data analysis(EDA	
	Data preparation	
	Feature engineering	
Week 7	Machine learning Pipeline	
	Feature selection	
	Scikit-learn	
	Regression in Machine Learning	
Week 8	Machine learning	
	Classification In Machine Learning	

	Clustering — Unsupervised Learning Customer Segmentation	Hands-on experience project
Week 9	Neural network & Deep learning Artificial neuron network Convolutional neural network (Malaria screener) Recurrent neural network (Sales forecasting)	Hands-on experience project Hands-on experience project
Week 10	Introduction to Natural Language Processing NLP Basic(Spacy & NLTK) Natural Language Processing(Text summarizer) Final Project Guidelines	Hands-on experience project
Week 11	Deployment & Intro Big data Processing API ML app (Streamlit or Flask) Big-data analytics	Hands-on experience project Hands-on experience project
week 12	Microsoft Azure Platform Big data analytics Azure project Microsoft (AZ900) Microsoft (AI Engineer)	Hands-on experience project