Data Science 1. programming [coding préquisite] 2. 8 Data Entraction & wrangling | preparation 3. EDA, Business acumen & Story telling [visualization 4. Data Engineering [ Data worklowes] Startistics & Mothematics [ Experimentation] 6. Machine Learning [Modeling] Dota Structures (python/R) SQL scripting Conditionals, List Dict Comprehension Object oriented programming working with Enternal librories fundamental algorithms. searching, Sorbing, trees, glap 2. Data Entraction Scripting - Entracting data from websites, APPs, UBS wrangling Data formattingtype conversional [Data Analysts (Anydepti)] Libraries - pandas & Numpy. Data transformation-forning, slecing, Handling missing Values.

3. Visualization Defining Business-focused questions Pashboards Studying Lata distribution -outliers Univariable & multivariable analysis Visualization - matplotillo, Slabom, ploty mile: Data Avalyst Business Analyst Building dashboards - Excel/tableau, jupyler Marketing Analyst writing concise & insightful reports Data product Harger Business acumea. working with CLP 4. Data Engineering Builty ETL pipelines profile: - Data Engineering using tools - spark, kalka, Derops Engineering ()
Data Architect cloud derinces - Aws, Gel, Azure Algorithm - Mapheduce, YARN - Deploying ML models in production. Descriptive - mean, median, mode etc 5. statistics & Mothematics: Experiment design profile: Data Scientist ANOVA, chi-Square test Quatitative Analyst Sampling, data distribution, I- tests hinear algebra Linear. & multivariate Calculas.

6. Machine Learning Supervised - classification, regression profile: ML Engineer, unsupervised - clustering, dimensionalty reduction Reinforcement learning - TF-Agents, optimising rewords performance métrices - RMS, acturacy, confusion matrix Hyperpalameter tuning

Statistical ML - KNN, Decesion trees, bagging, boosting

Ensemble Models - Random forests, voting classifiers, Adaboost