1. Advance degree in the Analytical field

* Data Science
* Computer Science
* Engineering
* Applied Mathematics
* Statistics
* Data Analysis
* Operations Research

1. Advanced Data mining techniques
   * Curating
   * Processing and transforming data to produce sound datasets
2. Machine Learning life cycle
   * Feature Engineering
   * Training
   * Validation
   * Scaling
   * Deployment
   * Scoring
   * Monitoring
   * Feedback loop
3. Supervised and Unsupervised Machine Learning includes
   * Classification
   * Forecasting
   * Anomaly Detection
   * Pattern Detection
   * Data Mining
   * Natural Language Processing
   * Computer Vision
   * Speech Recognition
   * Reinforcement Learning
   * Ranking and Recommendation
   * Using Techniques (Decision Trees, Time Series Analysis, Bagging and Boosting Algorithms, Neural Networks, Deep Learning)
4. Analytical programming languages - Python
5. Big Data Technologies (Spark / Hadoop) and cloud technologies
6. Machine Learning Frameworks

* TensorFlow
* Caffe/Caffe2
* Pytorch
* PySpark
* Keras
* MXNet
* Scikit-Learn

1. Advanced Machine Learning Algorithm

* Regression
* Classification
* Clustering
* Time series
* Decision trees
* Text analytics
* Deep learning ,NLP

1. Machine Learning Models

* Logistic Regression
* XGBoost
* Random Forest

1. Python Packages
   * FastAPI
   * Flask
   * Dash plotly
2. Building Data engineering pipelining
   * AWS Glue
   * Apache Airflow

12. CI/CD pipeling

Data driven UX research and clean UI development

Data visualization (D3, Highcharts)

Web (jest) and back end testing

Container technologies - Docker / Kubernetes

AWS Services (EKS, SageMaker, EMR,Glue, Lambda)

Code REfractoring , design pattern, DDD(Design driven development), continuous integration

,building highly scalble application,application security.

Data science Package

* Scikit-Learn
* Numpy,SciPy
* Pandas
* statsModels

ETL Pipelines