

The Datalicious

Course	Duration
Full Stack Data Science and AI with Specialization in NLP, CV and OCR along with an internship	6 Months

❖ **Additional 6 Months of unpaid Real-World Internship with a startup.**

Syllabus

- **Structured Query Language (SQL)**
- **Python**
 - OOPs concept
 - Pandas
 - Numpy
 - Matplotlib
 - Seaborn
- **Power BI, DAX**
- **Probability**
- **Statistics**
 - Descriptive Statistics
 - Inferential Statistics
- **Machine Learning**
 - Scikit Learn
 - Supervised Learning
 - a) Linear Regression
 - b) Multiple Linear Regression
 - c) Polynomial Regression
 - d) Lasso (L1) Regression

- e) Ridge (L2) Regression
- f) Decision Tree
- g) Logistic Regression
- h) Naive Bayes
- i) Support Vector Machine (SVM)
- j) KNN
- Unsupervised Machine Learning
 - a) K Means Clustering
 - b) Agglomerative Hierarchical Clustering
- **Ensembling Techniques**
 - Random Forest
 - Gradient Boosting Machine (GBM)
 - AdaBoost
 - XGBoost
 - CatBoost
- **Deep Learning**
 - Artificial Neural Network
 - CNN
 - RNN
 - Keras/TensorFlow/PyTorch
 - Perceptron
 - Optimizers
- **Natural Language Processing**
 - Text Processing
 - NLTK/Gensim/Spacy/Huggingface
 - Embedding Techniques
 - RNN
 - LSTM
 - GRU
 - BiLSTM
 - Sequence to Sequence Model

- Sequence to Sequence Model with Attention
- ELMO
- Transformers
- BERT
- **Computer Vision**
 - CNN
 - OpenCV
 - RCNN
 - Fast RCNN
 - Faster RCNN
 - Mask RCNN
 - YOLO
- **Optical Character Recognition**
 - Tesseract
 - Paddle OCR
 - PyMuPDF
- **Rest APIs**
 - Fast API
 - Postman
- **MLOps**
 - CI/CD
 - Git Actions
 - GitHub
 - Dockers
 - Kubernetes
 - MLFlow
- **Azure Cloud**
- **Generative AI Introduction**