

Forsk Summer Developer Program 2019 – Day wise Breakup

WEEK 1							
Day 1	Day 2	Day 3	Day 4	Day 5			
Python Toolset Installations	List	Enumerate	File handling	Creating a class			
Python in Industry	Membership Function (in)	Dictionary	Exception Handling	Generators			
Where we can use Python	for each loop	Set	with open	Regular Expressions			
History of Python	Functions		seek tell	GIT Part 1			
Features of Python	Tuple		OS Related File Handling Command				
Library Import			PIL Library				
String Handling			Playing with csv file				
Control Flow and Loops							
WEEK 2							
Day 1	Day 2	Day 3	Day 4	Day 5			
Any and All	Data Exchange Mechanisms	Data Scrapping using BeautifulSoup and Selenium	Database Handling in Python	Knowledge Review			
Collections (OrderedDict, NamedTuple, DefaultDict, Counter)	JSON Parsing		Relational (MySQL)	Industry Session			
List Comprehension	GET, POST, REST API		NoSQL Databases(MongoDB)	GIT Part 2			
Lambda	Talking to Internet						
Filter							
Мар							
Reduce							
Zip							
WEEK 3							
Day 1	Day 2	Day 3	Day 4	Day 5			
Matplotlib Part 1	Pandas	Statistics Part 1	Power BI	Knowledge Review			
NumPy	Matplotlib Part 2	ML Terminology	Databricks	Industry Session			
		ML Use Cases		Code Reviews			
		ML Tools and Technologies		Project Work			



				Technologies		
WEEK 4						
Day 1	Day 2	Day 3	Day 4	Day 5		
Regression Algorithms — Linear, Multiple and Polynomial Regression	Classification Algorithms — Logistic Regression, kNN,Confusion Matrix	Regression Algorithms — DecisionTree and RandomForest	Overfitting Handling — Ridge, Lasso, and ElasticNet Regression	Model Performance Metric for Regression and Classification		
WEEK 5						
Day 1	Day 2	Day 3	Day 4	Day 5		
Classification Algorithms — Kernel SVM and Naive Bayes	Clustering — kMeans++, DBSCAN	Association — Apriori	Dimensionality Reduction — PCA and LDA	Introduciton to ANN and CNN (Deep Learning)		
			k-Fold Cross-Validation	Knowledge Review		
				Industry Session		
WEEK 6						
Day 1	Day 2	Day 3	Day 4	Day 5		
Natural Language Processing (NLP)	Using OpenCV for Face Detection	Mathematical Building Blocks of Neural Networks (ANN)	CNN	Industry Session		
				Knowledge Review		
WEEK 7						
Day 1	Day 2	Day 3	Day 4	Day 5		
RNN — LSTM and GRU, Deep Learning for Time Series Analysis	Unsupervised DL: AutoEncoders	Knowledge Review	Projects allocation and Discussion			
	Unsupervised DL: Self Organizing Maps	Code Review				
		Industry Sessions				
WEEK 8						
Project Reviews Demos and Discussion Mock Interview Project Ends						