Forsk Summer Developer Program 2019 - Daywise Breakup

WEEK 1				
Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**
Python Toolset Installations	List	Enumerate	File handling	Generators
Python in Industry	Membership Function (in)	Dictionary	Exception Handling	Regular Expressions
Where we can use Python	for each loop	Set	with open	
History of Python	Functions		seek tell	
Features of Python	Tuple		OS Related File Handling Command	
Library Import			PIL Library	
String Handling			Playing with csv file	
Control Flow and Loops				
While Loop				

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
Lambda	Talking to Internet			
Filter				
Map				
Reduce				
Zip				

WEEK 3				
Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**
Pandas Part 1	Pandas Part 2	Numpy	Matplotlib	Statistics Part 1
				ML Terminology

WEEK 4

Day 1	Day 2	Day 3	Day 4	Day 5
Regression Algorithms — Linear and Multiple Regression	Polynomial Regression, Backward Elimination	Classification Algorithms — Logistic Regression, kNN,Confusion Matrix	Regression Algorithms — DecisionTree and RandomForest	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	Natural Language Processing (NLP)
			k-Fold Cross-Validation	Knowledge Review
				Industry Session

WEEK 6

Day 1	Day 2	Day 3	Day 4	Day 5
Introduction to ANN and CNN (Deep Learning)	Mathematical Building Blocks of Neural Networks (ANN)	CNN - Part 1	CNN - Part 2	RNN — LSTM and GRU, Deep Learning for Time Series Analysis

WEEK 7

Day 1	Day 2	Day 3	Day 4	Day 5
Unsupervised DL	Knowledge Review	Projects allocation and Discussion		
Using OpenCV for Face Detection	Code Review			
	Industry Sessions			

WEEK 8

Project Reviews
Demos and Discussion
Mock Interview
Project Ends