Full Stack Data Science Feb'21 Tech Neuron

Instructors:

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Sourangshu Pal: Visual Computing Engineer and instructor at iNeuron.ai having 3 years of diverse experie

krish naik: Having 10+ years of experience in Data Science and Analytics with product architecture design

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Sunny Savita: I'm an AI enthusiast, graduate in Computer science and engineering. Currently working with

Curriculum:

Welcome to the Course

- Course Overview

- Dashboard Introduction

Python Fundamentals

- Python Basic

- String, List, Indexing

- Tuple, Set & Dict

- If, Else & For Loop

- For Loops & While loops

- Python Program Discussion in loops

- Function Part - 1

- Function Part - 2

Advanced Python

- Iterator Generator & File System

- Exception handling Class 1 part 1

- Exception handling Class 1 part 2

- Exception handling Class 2

- Module & Packages

- OOPS Part 1

- OOPS Part 2

- OOPs Concepts - Polymorphism

Working with Databases & Python

- SQL Part 1

- SQL Part 2

- OOPS Discussion

- Introduction to MongoDB

- Working with Python & MongoDB Part1

- Working with Python & MongoDB Part2

- SQL lite, map, reduce, filter, zip

Working with Pandas & Numpy

- Introduction to Pandas

- Working with Pandas

- Pandas Data Analysis Part 1

- Pandas Data Analysis Part 2

- Pandas and Numpy

- Numpy methods

GUI Programming

- GUI Programming with Tkinter

Working with Graphs & Charts

- Introduction to Graphs & Charts

- Working with Graphs in Python

API

- API Testing

Python Projects

- Flask End-to-End Project

- Review Scrapper

- Image Scrapper and deployment on Heroku, AWS, and Azure

Statistics

- Introduction to Stats - Day 1

- Stats - Day 2

- Extra doubt session

- Stats - Day 3

- Stats - Day 4

- Stats - Day 5

EDA & Feature Engineering

- Introduction to EDA

- Doubt Clearing session

- EDA and Feature Engineering

Machine Learning

- Linear Regression

- Ridge Lasso Regression, Elastic & Logistic Regression

- Naive Bayes Algorithm and practical implementation of Ridge Lasso and Logistic Regression

- Logistic Practical, SVM, SVR

- Decision Tree Classification

- Random Forest & SVM

- Adaboost

- Gradient Boosting

- Clustering

- Introduction to Machine learning

- Linear Regression

- Linear Regression live coding demonstration part-1

- Linear Regression live coding demonstration part-2

- Project Admission Prediction, Lasso, Ridge & Elastic Net

- Project deployment in Heroku, Azure & AWS

- Logistic Regression

- Logistic Regression implementation

- Decision Tree

- Decision Tree Part 2, Ensemble Tech, Random Forest & Boosting

- KNN and SVM

- Decision Tree Practical Implementation

- Decision Tree Live Coding & Grid Search

- Grid Search, Bagging Classifier & Random Forest

- KNN, SVC, SVR & Stacking

- Clustering

- Clustering and PCA

- PCA practical, DBSCAN and Naive Bayes

- XG Boost, NLTK & TF-IDF

Machine Learning End to End Project

- Machine learning project

- Machine learning project

- ML End to End project Pipeline Explanation

- ML Project Explanation along with GitHub and Docker

- Machine Learning Pipelines Live Coding Part-1

- Machine Learning Pipelines Live Coding Part-2

- 2nd July Live Class

- Machine Learning Pipelines Live Coding Part-2

- Revision Class

- Model training, evaluation and push

- Model training, evaluation and push

- Revision

PCA in ML

- PCA

- PCA Implementation

NLP for Machine Learning

- NLP in ML

- Spam Classification

Time Series Analysis

- Introduction to Time Series

- Time Series Implementation

Stats

- Introduction

- Different types of Statistics

- Population vs Sample

- Mean, Median and Mode

- Variance, Standard Deviation

- Sample Variance why n-1

- Standard Deviation

- Variables

- Random Variables

- Percentiles & quartiles

- 5 number summary

- Histograms

- Gaussian - Normal distribution

- Standard Normal distribution

- Application Of Zscore

- Basics Of Probability

- Addition Rule In Probability

- Multiplication rule in probability

- Permutation

- Combination

- Log Normal Distribution

- Central Limit theorem

- Statistics - Left Skewed And Right Skewed Distribution And Relation With Mean, Median And Mode

- Covariance

- Pearson And Spearman Rank Correlation

- What is P-Value?

- What is Confidence Interval?

- How To Perform Hypothesis Testing - Confidence IntervalZ Test Statistics Derive Conclusion

- Hypothesis testing part 1

- Hypothesis testing part 2

- Finalizing statistics

ML Projects

- Detailed Project Report explanation

- Project:- Wafer Fault Detection Part 1

- Project:- Wafer Fault Detection Part 2

- Deployment in Heroku using docker and CircleCI

ML Project 1 :- Fault detection in wafers based on sensor data

- Introduction

- The problem statement and Data Description
- The Application Flow
- Ingestion and Validation Part1
- Validation Part2
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

ML Project 2 :- Cement Strength Prediction

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

ML Project 3 :- Credit Card Defaulters

- Introduction
- The Problem Statement and Data Description
- The Application Flow

- Code intro and Logging

- Validation and Transformation

- DB Operations

- Data Preprocessing

- Deployment

ML Project 4 :- Forest Cover

- Introduction

- The Problem Statement and Data Description

- Application Flow

- Code intro and Logging

- Validation and Transformation

- DB Operations

- Data Preprocessing

- Clustering

- Model Selection and Tuning

- Prediction

- Deployment

ML Project 5 :- Income Prediction

- Introduction

- The Problem Statement and Data Description

- The Application Flow

- Code intro and Logging

- Validation and Transformation

- DB Operations

- Data Preprocessing

- Clustering

- Model Selection and Tuning
- Prediction
- Deployment

ML Project 6 :- Insurance Fraud Detection

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tunning
- Prediction
- Deployment
- The Problem Statement and Data Description

ML Project 7 :- Mushroom Classification

- Introduction
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Predictions

- Deployment

ML Project 8 :- Phishing Classifier

- Introduction

- The Application Flow

- Code intro and Logging

- Validation and Transformation

- DB Operations

- Data Preprocessing

- Clustering

- Model Selection and Tuning

- Prediction

- Deployment

ML Project 9 :- Thyroid Detection

- Introduction

- The Problem Statement and Data Description

- The Application Flow

- Code intro and Logging

- Vallidation and Transformation

- DB Operation

- Data Preprocessing

- Clustering

- Model Selection and Tuning

- Prediction

- Deployment

ML Project 10 :- Visibility Climate

- Introduction

- The Problem Statement and Data Description

- The Application Flow

- Code intro and Logging

- Validations and Transformation

- DB Operations

- Data Preprocessing

- Clustering

- Model Selection and Tuning

- Prediction

- Deployment

Time Series

- Arima, Sarima, Auto Arima

- Time series using RNN LSTM, Prediction of NIFTY stock price

- Time series using RNN LSTM, Prediction of NIFTY stock price

DL ANN - Introduction

- Introduction to Deep Learning

- Importance of Deep learning

- Why you should study Deep Learning? (Motivation)

- ANN vs BNN

- The first Artificial Neuron

DL ANN - Perceptron

- Overview of Perceptron

- More about Perceptron

- Perceptron implementation using python - 1

- Perceptron implementation using python - 2

- Perceptron implementation using python - 3

- Perceptron implementation using python - 4

- Perceptron implementation using python - 5

- Perceptron implementation using python - 6

- Perceptron implementation using python - 7

- Python scripting & modular coding for Perceptron

- Python logging basics and docstrings

- Python packaging, Github actions, and PyPI

DL ANN -1

- Multilayer Perceptron

- Forward propagation

- Why we need an Activation function?

- ANN implementation using tf.keras - 1

- ANN implementation using tf.keras - 2

- ANN implementation using tf.keras - 3

- ANN implementation using tf.keras - 4

- ANN with Callbacks | Tensorboard | Early Stopping | Model Checkpointing

DL ANN - 2

- Vector

- Differentiation

- Partial differentiation

- Maxima and minima concept

- Gradient descent basics

- In-depth understanding of Gradient descent with mathematical proof

DL ANN - 3

- Chain rule

- Backpropagation

DL ANN - 4

- General problems in training Neural Networks
- Vanishing and Exploding gradients
- Activation Function Basics
- Weight initialization
- Activation Functions - 1
- Activation functions - 2
- Activation functions - 3
- Transfer learning
- Batch normalization -1
- Batch normalization -2
- Batch normalization -3

DL ANN - 5

- Introduction to fast optimizers
- Momentum optimization
- NAG
- Elongated bowl problem | AdaGrad
- RMSProp
- Adam
- Loss functions
- Regularization
- Dropout

Computer Vision - Introduction

- Introduction to Course
- Course Overview
- Installing Anaconda, Pycharm & Postman

- Working with Conda Envs

- Pycharm Introduction

- Pycharm with Conda

- Pycharm with venv

- Pycharm with Pipenv

Computer Vision - CNN Foundations

- Why CNN? Building an Intution for CNN

- CNN, Kernels, Channels, Feature Maps, Stride, Padding

- Receptive Fields, Image Output Dimensationality Calculations, MNIST Dataset Explorations with CNN

- MNIST CNN Intutiton, Tensorspace.js, CNN Explained, CIFAR 10 Dataset Explorations with CNN

- Dropout & Custom Image Classification Dog Cat Dataset

- Deployment in Heroku, AWS, Azure

- Deployment in GCP,AWS EBS

Computer Vision - CNN Architectures

- LeNet-5

- LeNet-5 Practical

- AlexNet

- AlexNet Practical

- VGGNet

- VGG16 Practical

- Inception

- Inception Practical

- ResNet

- Resnet Practical

Computer Vision - Image Classification Hyper Parameter Tuning

- Keras Tuner

- Building a simple model

- Tuning with Keras Tuner

Computer Vision - Data Augmentation

- What is Data Augmentation?

- Benefits of Data Augmentation

- Exploring Papers like RICAP, Random Erasing, Cutout

- Exploring Augmentor

- Exploring Roboflow

Computer Vision - Object Detection Basics

- What is Object Detection?

- Competitions for Object Detection

- Bounding Boxes

- Bounding Box Regression

- Intersection over Union (IoU)

- Precision & Recall

- What is Average Precision?

Computer Vision - Object Detection Architectures

- Object Detection Family

- RCNN

- RCNN Network Architecture

- Cons of RCNN

- FAST RCNN

- FAST RCNN Network Architecture

- Cons of FAST RCNN

- FASTER RCNN

- FASTER RCNN Network Architecture

- YOLO

- YOLO Architecture

- YOLO Limitations

- SSD

- SSD Network

Computer Vision - Practicals Object Detection using Tensorflow 1.x

- Introduction to TFOD1.x

- Using Google Colab with Google Drive

- Installation of Libraries in Colab

- TFOD1.x Setup in Colab

- Visiting the Model Zoo

- Inferencing in Colab

- Inferencing in Local

- Important Configurations Files

- Webcam Testing

Computer Vision - Practicals Training a Custom Cards Detector using Tensorflow1.x

- Custom Model Training in TFOD1.x

- Our Custom Dataset

- Doing Annotations or labeling data

- Selection of Pretrained Model from Model Zoo

- Files Setup for Training

- Let's start Training in Colab

- Export Frozen Inference Graph

- Inferencing with our trained model in Colab

- Training in Local

- Inferencing with our trained model in Local

Computer Vision - Practicals Creating an Cards Detector Web App with TFOD1

- Code Understanding

- WebApp Workflow

- Code Understanding

- Prediction with Postman

- Debugging our Application

Computer Vision - Practicals Object Detection using Tensorflow 2.x

- Introduction to TFOD2.x

- Using the Default Colab Notebook

- Google Colab & Drive Setup

- Visting TFOD2.x Model Garden

- Inference using Pretrained Model

- Inferencing in Local with a pretrained model

Computer Vision - Practicals Training a Custom Chess Piece Detector using Tensorflow2

- Custom Model training in TFOD2.x

- Our Custom Dataset TF2

- File Setup for Training

- Let's start Training

- Let's start Training

- Stop Training or resume Training

- Evaluating the trained model

- Convert CKPT to Saved Model

- Inferencing using the Custom Trained Model in Colab

- Inferencing using the Custom Trained Model in Local PC

Computer Vision - Practicals Creating an Chess Piece Detector Web App with TFOD2

- Creating a Pycharm project & Environment Setup TF2

- Application Workflow

- Code understanding

- Testing our App with Postman

- Debugging our Application

Computer Vision - Practicals Object Detection using Detectron2

- Introduction to Detectron2

- Detectron2 Colab Setup

- Visiting Detectron2 Model Zoo

- Detectron2 Pretrained Model Inferencing

Computer Vision - Practicals Training a Custom Detector using Detectron2

- Detectron2 Custom Training

- Exploring the Dataset

- Registering Dataset for Training

- Let's start Training

- Inferencing using the Custom Trained Model in Colab

- Evaluating the Model

Computer Vision - Practicals Creating an Custom Detector Web App with Detectron2

- Creating a Pycharm project & Environment Setup Detectron2

- Application Workflow

- Code understanding

- Testing our App with Postman

- Debugging our Application

Computer Vision - Practicals Object Detection using YoloV5

- Introduction to YoloV5

- YoloV5 Colab Setup

- Inferencing using Pre Trained Model

Computer Vision - Practicals Training a Custom Warehouse Apparel Detector using YoloV5

- Custom Training with YoloV5

- Exploring the Dataset

- Doing Annotations or labeling data

- Setting up Google Colab & Drive

- Let's start Training

- Inferencing using the Custom Trained Model in Colab

Computer Vision - Practicals Creating an Warehouse Apparel Detector Web App with YOLOV5

- Creating a Pycharm project & Environment Setup Yolo

- Application Workflow

- Code understanding

- Testing our App with Postman

- Debugging our Application

Computer Vision - Image Segmentation

- Segmentation Introduction

- From Bounding Box to Polygon Masks

- What is Image Segmentation?

- Types of Segmentation

- MASKRCNN

- MASK RCNN Architecture

Computer Vision - MASK RCNN Practicals with TFOD

- Segmentation with TFOD1.x

- Local Setup MASKRCNN

- Exploring the Dataset

- Data Annotation

- Model Selection

- Files Setup for Training

- Model Training

- Export Frozen Inference Graph

- Model Prediction

Computer Vision - MASKRCNN practical with Detectron2

- Introduction to Detectron2

- Detectron2 Colab Notebook

- Exploring the Model Zoo

- Detecron2 Colab Setup

- Custom Training with Detectron2

- Exploring our Dataset

- Data Annotation

- Data Preparation

- Setup for Training

- Let's start Training

- Inferencing using the Custom Trained Model in Colab

- Evaluating the Model

Computer Vision - Face Recognition Project

- Introduction to Project

- Requirement Gathering

- Techstack Selection

- Project Installation

- Project Demo

- Project Workflow

- Core Components of the Application

- Data Collection Module

- Generate Face Embeddings

- Training Face Recognition Module

- Prediction Pipeline

- Entry point of the Application

- Application Workflow

- Debugging our Application

Computer Vision - Object Tracking Project

- Object Tracking project

- Project Installation Tracking

- Project Demo

- Code Understanding

Computer Vision - GANS

- Introduction to GANS

- GAN Architecture

- GAN PRACTICALS Implementation

Computer Vision Project - Traffic Vehicle Detection

- Introduction to Vehicle Detection project

- Requirement Gathering

- Framework Selection

- Detailed Project Workflow

- Data Collection Scrap

- Data Preparation

- Data augmentation augmenter

- Data Annotations

- Model Training

- Creating a Pycharm project & Environment Setup TVD

- WebApp Workflow

- Code Understanding

- Prediction with Postman

- Debugging our Application

Computer Vision Project - Helmet Detection

- Introduction to Helmet Detection project

- Requirement Gathering

- Techstack Selection

- Detailed Project Workflow

- Data Collection

- Data Preparation

- Data Augmentation

- Data Annotations

- Model Training

- Creating a Pycharm project & Environment Setup HD

- WebApp Workflow

- Code Understanding

- Prediction with Postman

- Debugging our Application

Computer Vision Project - Fashion Apparel Detection

- Introduction to Fashion Apparel Detection project

- Requirement Gathering

- Techstack Selection

- Detailed Project Workflow

- Data Collection

- Data Preparation

- Data Augmentation

- Data Annotations

- Model Training

- Creating a Pycharm project & Environment Setup FAD

- Project Demo

- WebApp Workflow

- Code Understanding

- Prediction with Postman

- Debugging our Application

Computer Vision Project - Image TO Text OCR

- Introduction to Project

- Project Installation OCR

- Project Demo

- Application Workflow

- Code Understanding

- Debugging our App

- Different OCR's available

Computer Vision Project - Shredder System

- Introduction to Shredder Systems

- Requirement Gathering

- Techstack Selection

- Data Collection

- Data Augmentation

- Data Preparation

- Data Annotation

- Model Selection from Zoo

- Model Training

- Creating a Pycharm project & Environment Setup SS

- Application Workflow

- Project Demo

- Code Understanding

- Debugging our Application

- Project Workflow

- Project Workflow

Computer Vision Project - Automatic Number plate Recognition with TFOD1.x

- Introduction to ANPR Project

- Requirement Gathering

- Tech Stack Selection

- Data Collection

- Data Augmentation

- Data Preparation

- Data Annotation

- Model Selection From Zoo

- Model Training

- Creating a Pycharm project & Environment Setup ANPR

- Application Workflow

- Create Google OCR API Key

- Project Demo

- Code Understanding

- Debugging our Application

NLP Overview

- NLP Overview

- NLP very basic

NLP Word Embeddings

- TFIDF

- Word Embeddings Part-1

- Word Embeddings Part-2

NLP RNN

- RNN basic

- RNN Implementation

NLP LSTM & GRU

- LSTM Introduction

- GRU

NLP Attention Based Model

- Encoder Decoder and Attention Mechanism

- Attention All You Need Paper Understanding

NLP Transfer Learning in NLP

- GPT and BERT Model

- SOTA Model with Paper Discussions

- Albert & DistillBert Project Discussion

NLP Project :- Megatron

- Megatron Project

NLP Project:- Brand Measures

- Brand Measures Project

NLP Project:- Text to Speech

- Introduction

- Project Setup Text to Speech

- Project Demo

- Code Explanation

- Project Workflow

- Prediction with Postman

- Debugging Application

NLP Project:- Speech To Text

- Introduction

- Project Setup Speech To Text

- Project Demo

- Code Explanation

- Project Workflow

- Prediction with Postman

- Debugging Application

NLP Project:- Spell Corrector

- Introduction

- Project Setup Spell Corrector

- Project Demo

- Code Explanation

- Project Workflow

- Prediction with Postman

- Debugging Application

NLP Project:- Named Entity Recognition

- NER using BERT

NLP Project:- Machine Translation & Keyword Spotting

- Machine Translation

- Keyword Spotting

NLP Project:- Keyword Extractor & Summarization

- Keyword Extraction

- Extractive Text Summarization

NLP project:- Paraphrasing

- Rephrase Project

BigData - Introduction to Big Data and Data Engineering

- Big Data Engineering

BigData - Introduction to Distributed Systems - Hadoop and MapReduce

- Big Data Engineering Introduction

BigData - Map Reduce & YARN

- Big Data Hadoop Map Reduce YARN

- Hadoop Map Reduce Hands On

BigData - Hive

- Apache hive

BigData - Hive Hands On

- Apache hive Hands On

BigData - NoSQL and Hbase

- Big Data HBase

- Hbase hands On

BigData - Sqoop

- Big Data Sqoop

- Big Data Sqoop Hands On

BigData - Spark

- Spark - Introduction

- Big Data Engineering using PySpark- RDDs

- Spark hands on - RDD

- Big Data Engineering using PySpark- Core, Internals, Architecture

- Apache Spark Actions_ Transformations

- Apache Spark Caching

- Big Data Engineering using PySpark- Shared Vars , Coalesce Repartition

- Big Data Engineering using PySpark- Dataframes

- Spark hands on - Dataframe

- Spark hands on - Databricks

- Big Data Engineering using PySpark- Catalyst& Tungsten

BigData - Spark ML

- Big Data Engineering using PySpark- MLLib

- Spark hands On - Spark ML Lib

BigData - Spark Streaming

- Big Data Engineering using PySpark- Streaming Part 1

- Big Data Engineering using PySpark- Streaming Part 2

- Spark hands On - Spark Streaming

BigData - Kafka

- Big Data Kafka

- Big Data Kafka Hands on

BigData - Apache Airflow - Workflow Management Platform

- Big Data - Airflow

- Big Data Airflow Hands On

Big Data Projects

- IoT Sensor data pipeline using Kafka-Spark Streaming

- Product Reccomendation Engine using Kafka-Spark Streaming

- Short Video App Analytics

Basic Charts in Power BI

- 2.0 Basic Charts in Power BI Desktop

- 2.1 Column Chart in Power BI

- 2.2 Stacked Column Chart in Power BI

- 2.3 Pie Chart in Power BI

- 2.4 Donut Chart in Power BI

- 2.5 Funnel Chart in Power BI

- 2.6 Ribbon Chart

- 2.7 Include and Exclude

- 2.8 Export data from Visual

Cards and Filters

- 6.0 Cards and Filters in Power BI

- 6.1 Number Card

- 6.2 Text Card

- 6.2.1 Formatting of Text Card

- 6.3 Date Card

- 6.3.1 Date Card (Relative Filtering)

- 6.4 Multi-Row Card

- 6.5 Filter on Visual

- 6.6 Filter on This PAge

- 6.7 Filter on All Pages

- 6.8 Drillthrough in Power BI

Objects in Power BI

- 9.1 Insert Image in Power BI

- 9.2 Insert Text in Power BI

- 9.3 Insert Shapes in Power BI

- 9.4 Insert Buttons in Power BI

- 9.5 Web URL Action in Power BI

- 9.6 Page Navigation Action in Power BI

- 9.7 Bookmark Action in Power BI

- 9.8 Drillthrough Action in Power BI

Power Query - Number Functions

- 13.0 Number Functions in Power Query (Power BI)

- 13.1 Basic Number Functions in Power Query (Power BI)

- 13.2 Percentage,Percent Of, Module in Power Query (Power BI)

- 13.3 Round Functions in Power Query (Power BI)

- 13.4 IsEven,IsODD, Sign in Power Query (Power BI)

Power Query - Append Files

- 14.1 Append multiple CSV files in a folder in Power Query (Power BI)

- 14.2 Append multiple excel sheets,Tables in Power Query (Power BI)

- 14.3 Append Excel sheets or Tables with different columns in Power BI

- 14.4 Append multiple Excel files from a folder in Power BI

- 14.5 Append different data sources in Power BI

Power Query - Merge Files

- 15.0 Merge Files and Tables in Power BI

- 15.1 Merge Sheets or Tables in Power Query (Power BI)

- 15.2 Merge Data from multiple Excel files or Workbooks in Power BI

- 15.3 Merge data from different data sources in Power Query (Power BI)

- 15.4 Merge data having multiple criteria in Power BI

Introduction to tableau

- Tableau Introduction

- Download and Install Tableau

- Tableau Vs Excel

Charts - 1

- Column Chart

- Horizontal Bar Chart

- Stacked Column Chart

- Stacked Bar Chart

- Keep Only,Exclude

- Keep Only,Exclude2_Normal

- Publish to Tableau Public

Charts - 2

- Pie Chart

- Multiple Pie Chart

- TreeMap_Editing

- Packed Bubble Chart

- Word Cloud OR Word Map

- Formatting payal

SQL

- Database Architecture

- Introduction to SQL

- Constraints

- Data Definition Language (DDL)

- Data Query Language (DQL)

- Data Manipulation Language (DML)

- Joins

- Import Export

- Aggregate Functions

- Order by, Having & Limit Clause

- String Functions

- Datetime functions
- Understanding Regular Expressions
- Nested Queries
- Views
- Stored Procedures
- WindowsFn
- Python-SQL Connectivity