## IIA Code Setup

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Username: admin

Password: Automation@123

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Prerequisite:					
ln:	stall given sofwares before setting up the IIA.				
- - -	- Python version == 3.9 - Robo3T == 1.4 - Angular CLI 7.0.1 install using this command (npm install -g @angular/cli) - MongoDB == 3.12.0 - Node 14.22				
De	fault password for IIA to login:				

Once IIA is up and Running click on Refresh button to refresh IIA Frontend.



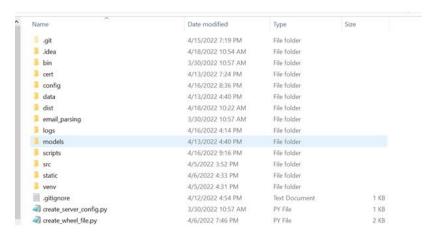
## 1. IIA Code Setup:

#### IIA Code:

https://github.com/Infosys/Infosys-Intelligent-Assistant.git

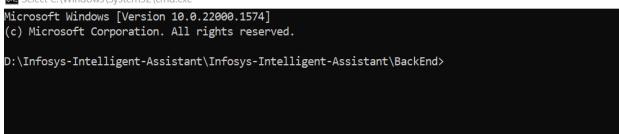
#### Run IIA:

Navigate to the place where IIA back end code is present



#### Open Command prompt from the navigated location

Select C:\Windows\System32\cmd.exe



If you are setting things up for the first time then issue

python -m venv venv

a folder named venv will be created

Activate the virtual environment

Cd venv

Cd scripts

Activate

Cd..

Cd..

Pip install -r requirements.txt

Cd bin & run

Follow the activate virtual environment and run bin going forward.

#### **Build Frontend Code:**

Navigate to the place where IIA front end code is present

Name	Date modified	Туре	Size
idea .idea	17-03-2023 16:15	File folder	
■ BackEnd	17-03-2023 16:16	File folder	
FrontEnd	17-03-2023 16:16	File folder	
uild_iia_frontend.bat	14-03-2023 15:08	Windows Batch File	1 KB
LICENSE	14-03-2023 15:08	File	2 KB
README.md	14-03-2023 15:08	Markdown Source File	1 KB

Open command prompt at this location and run build\_iia\_frontend.bat using the below code.

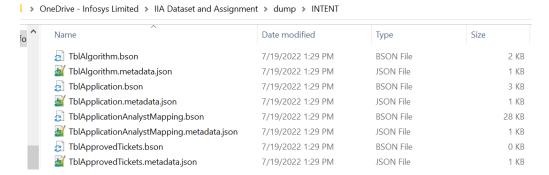
C:\Windows\System32\cmd.exe

D:\Infosys-Intelligent-Assistant\Infosys-Intelligent-Assistant>build\_iia\_frontend.bat

Once successfully completed It will build static file and paste static file in the Backend Folder.

# 1. Mongodb back up and restore BackUp:

mongodump - db <db name



#### Restore:

Open command prompt outside dump folder where you kept mongodump files

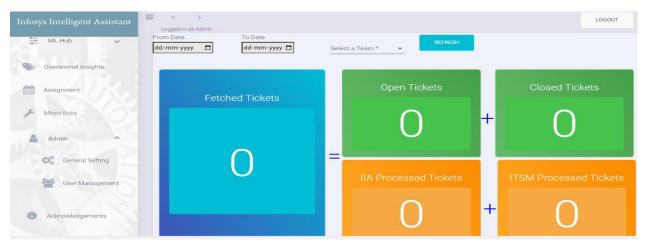
mongorestore --db <databasename> --drop dump/<databasename>



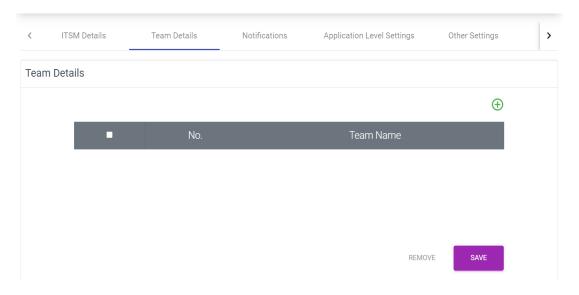
## 1. IIA Dataset Setup

#### Create Team in IIA:

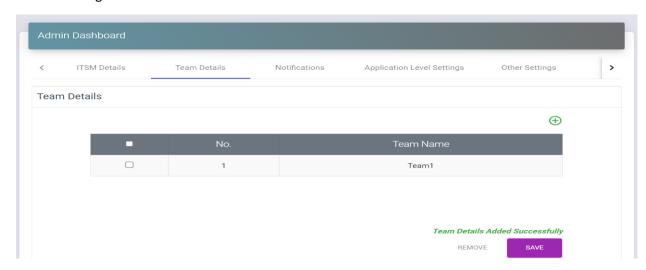
Below is the screenshot of homepage of the IIA. Click on the general setting.



#### Click on Team details.

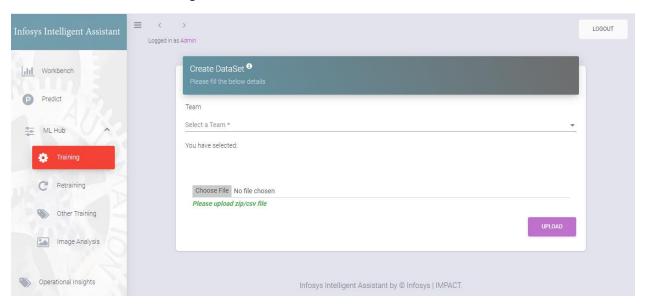


Click on Plus Sign. Enter team name and click on Save Button.



## Uploading dataset for training in IIA:

Below is screenshot of Training Module



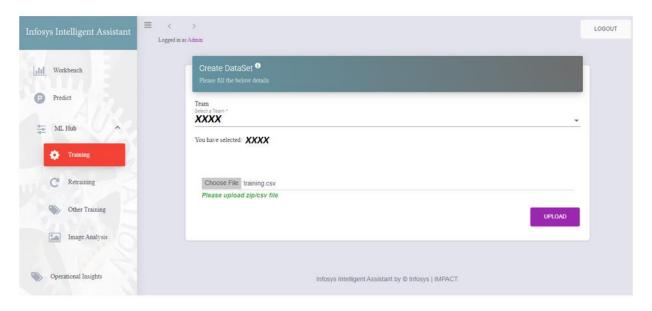
To add records, you will have to choose the team and file(zip/csv) to be uploaded.

### Steps to add Records:

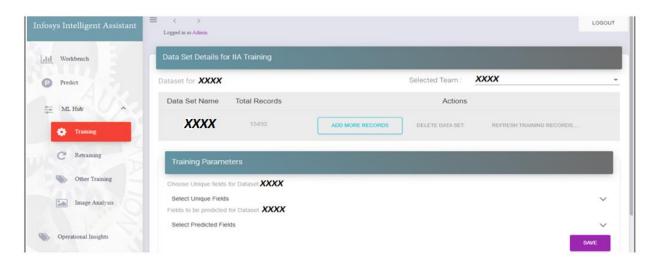
Step 1: Hover over the Select a Team option. Select the team you want to add the training data for, from the drop down.



Step 2: After Selecting the Team, choose the CSV/Zip file which you want to upload.



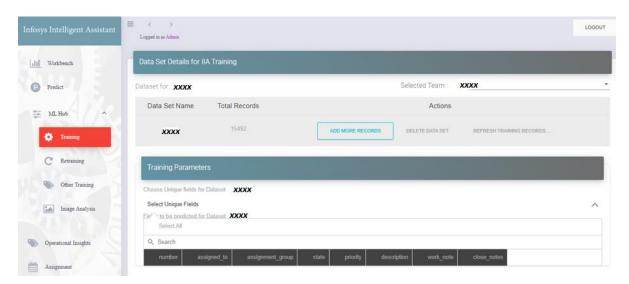
Step 3: Click on upload to upload the csv to IIA database. The tickets which have been uploaded are not trained yet.



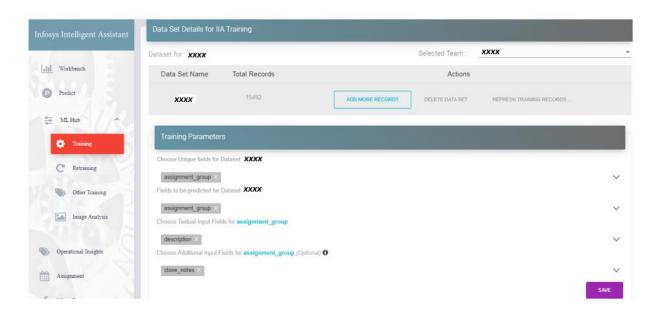
After you upload the records for training, you get an option to add more records or delete the dataset or refresh the training records added

#### Steps to select the Training Parameters:

Step 1: Click on Select Unique field to select the unique field from the uploaded tickets.

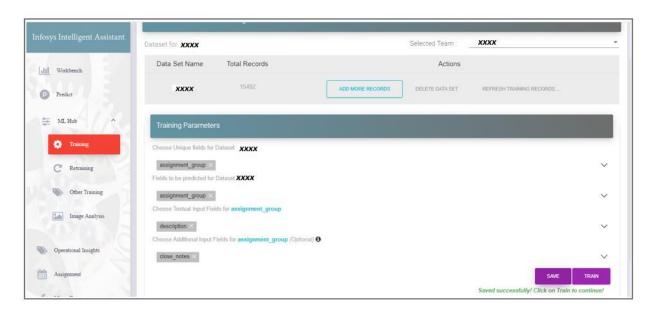


- Step 2: Click on Select Predicted Fields to select the various field which you want to predict from IIA.
- Step 3: Click on Select Textual Input Fields to choose input field for all the predicted Field.
- Step 4: Click on Select Additional Input Fields to choose input field for all the predicted Field. The additional fields are optional.

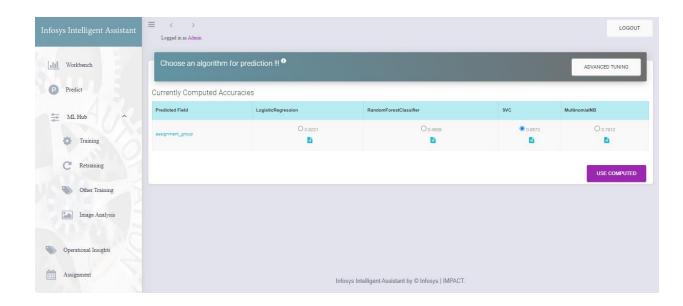


Step 5: Click on Save to save the parameter choices.

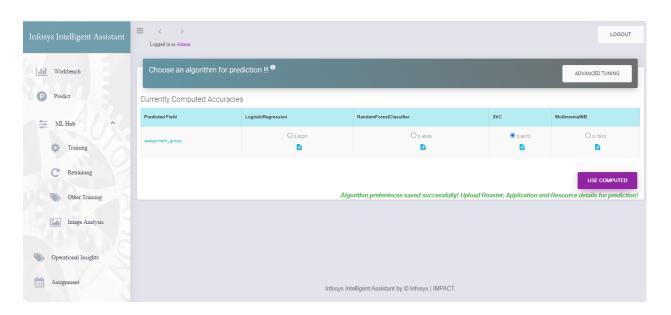
Step 6: Click on train to start the machine training on the selected parameters.



After the machine gets Trained on the chosen training parameter, IIA displays F1-score on the Training data for each Algorithm. By default, the algorithm giving the highest F1-score for that Predicted field is already selected by IIA. However, one can change the algorithm to be used by selecting a different radio button.



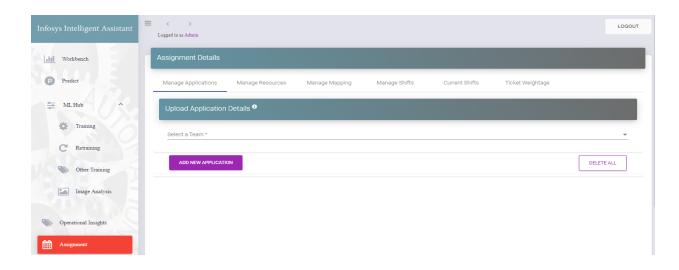
Step 7: After the algorithm to be used is selected the Button of USE COMPUTED must be pressed to save the chosen algorithms for future prediction use.



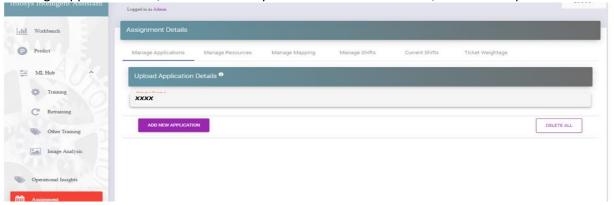
Now you can go ahead and upload supporting documents in Assignment module for prediction.

#### Steps to upload supporting documents in Assignment module:

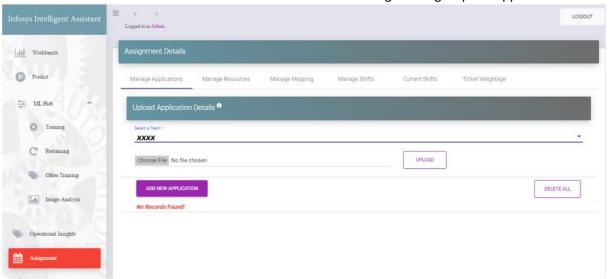
Below is screenshot of Assignment Module



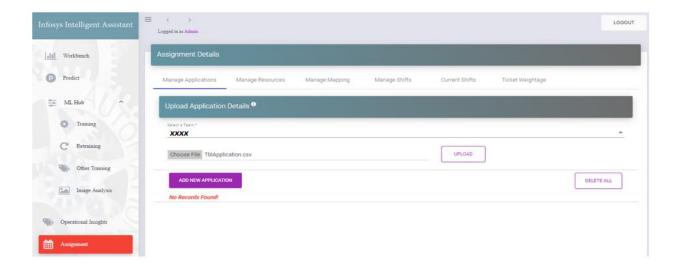
1. Go to Manage Applications tab, Select the team you want to add the data for, from the drop down.



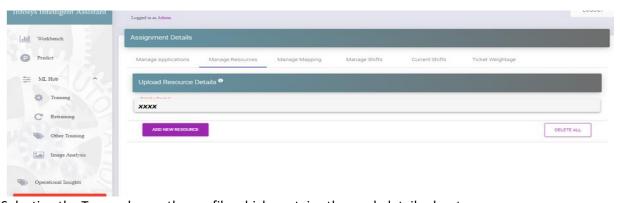
2. Choose the csv file here which has relevant information about the assignment groups or applications.



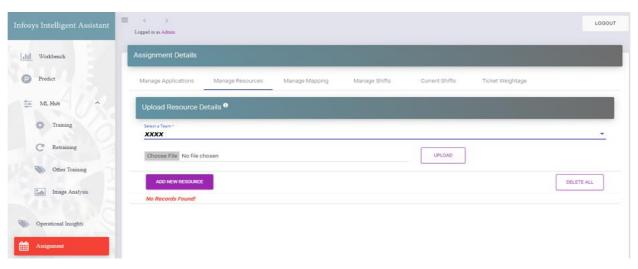
3. Click on Upload to upload csv data.



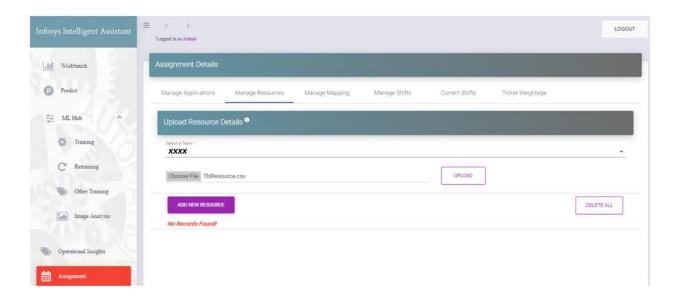
1. Click on Manage Resources tab, Select the team you want to add the data for, from the drop down.



2. After Selecting the Team, choose the csv file which contains the work details about a resource.



3.Click on Upload to upload csv data.



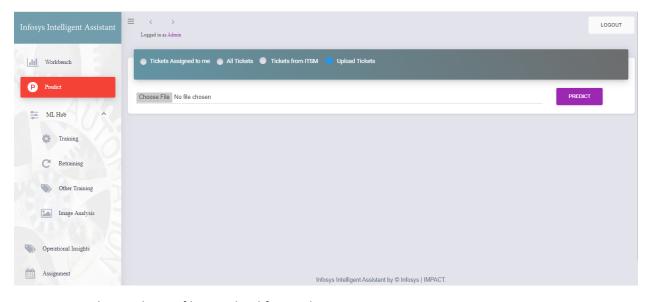
Then go to Manage Shift tab, select the team and upload the excel file which contains the shift details of the resource.

The last component of the module is the Ticket weightage. Here, select the team and upload a ticket details via csv file, such as Ticket type, priority, status, weightage details.

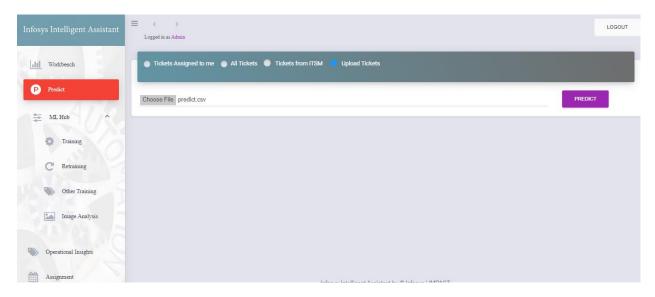
Once we have uploaded all the relevant files here, we can now proceed with the prediction of the assignee for the tickets.

#### **Uploading data set for Prediction:**

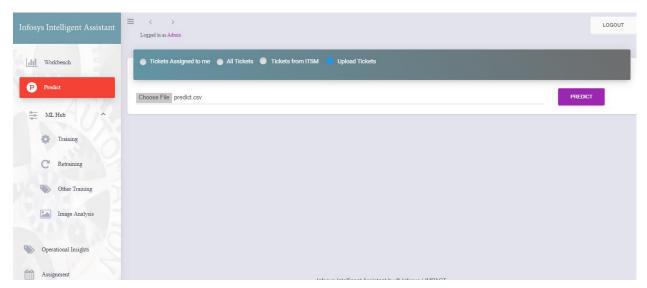
Below is screenshot of Prediction Module



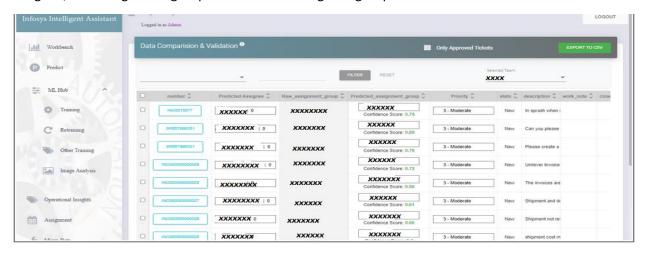
Step 1: Here choose the csv file to upload for prediction.



Step 2: Click on Predict button to start prediction for the tickets.

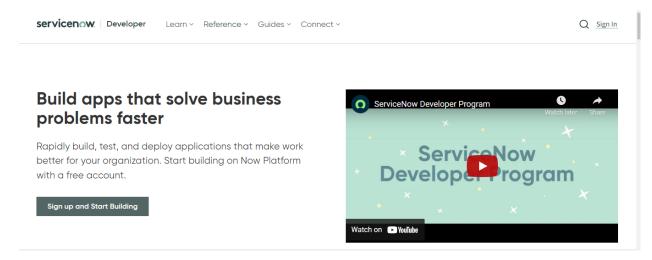


Once the tickets given for prediction have been Predicted, A Data Comparison & Validation Page Opens. In this page you can see the various ticket details as per uploaded dataset along with Ticket Number, Predicted Assignee, Raw assignment group and Predicted assignent group.

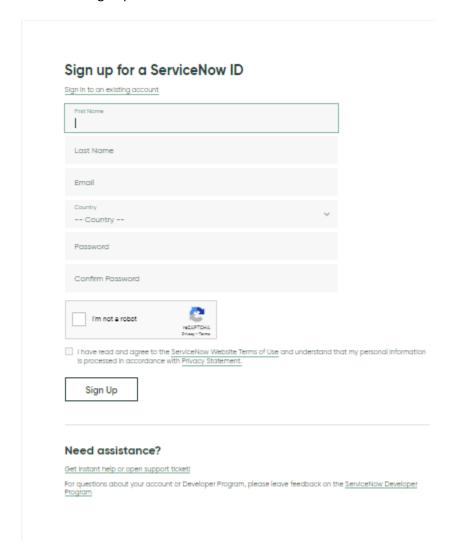


## • Service Now Setup

Step 1 : Go to <a href="https://developer.servicenow.com/dev.do">https://developer.servicenow.com/dev.do</a>



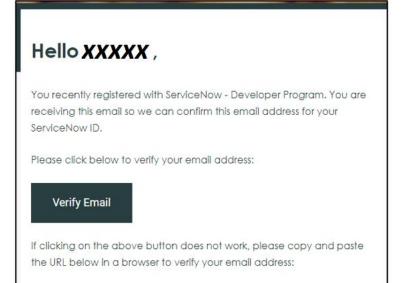
Step 2 : Click on "Sign up and start building". you will be navigated to sign up page enter all the required details and clik on sign up.



## Thank You!

Please Note: The email will be valid for 24 hours.

You will receive a mail like shown below click on verify Email.



You will get this verification completion mail.

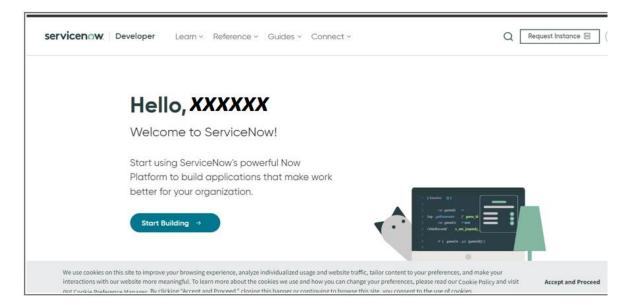
https://signon canica-now com/v enc een guth da#/

## **Thank You!**

Your email: **XXXXXXXXX** @gmail.com has been verified. Please click below to login to the application.

Login

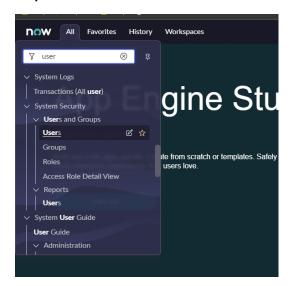
Click on login and give the required credentials.



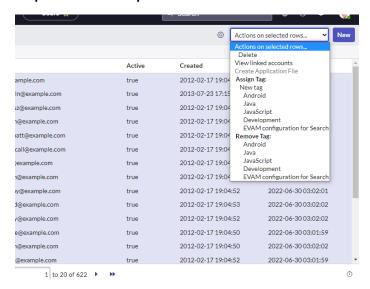
Click on "request Instance" once it is completed click on start building this page will be shown.



Step 1 : Click on All :



Step 2: Remove All previous data



#### **Uploading the Data:**

#### 1. Uploading user details:

for uploading tickets search for user click on the one which is inside system security.

To upload the new users first prepare the file update these fields email, firstName, lastName, user id, password fields and upload the user in Service Now.

Right click on user id > click on import > choose the file location > click on upload > click on preview imported data (validate if all got uploaded) > click on complete Import.

#### 2. To upload assignment group:

for uploading tickets search for group click on the one which is inside system security.

To upload the assignment groups first update these fields name and description in sys\_user\_group\_insert file

Right click on Name> click on import > choose the file location > click on upload > click on preview imported data (validate if all got uploaded) > click on complete Import.

#### 3. To upload tickets in bulk:

for uploading tickets search for incident click on the one which is inside service desk.

To upload the tickets first update the required fields use the template file.

Right click on Number > click on import > choose the file location > click on upload > click on preview imported data (validate if all got uploaded) > click on complete Import.

#### To integrate it with IIA:

Now go to your profile click on Manage instance password

## Manage instance password

Login credentials for your instance:

Instance name: xxxxx

Instance URL: https://xxxxxxxxxservice-now.com/

Username: **XXXXXX**Password: **XXXXXX** 

Update your credentials in mongodb campass in TblITSMDetails collection.



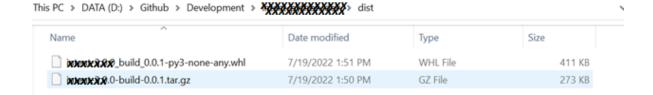
## IIA Deployment

#### **Build Config:**

Modify the Version and build as required in build config so that it will reflect in iia wheel package

```
🔚 build_config.yaml 🚨
  2
          name: XXXXXXXXX
  3
          version: 3.0.0
 4
          build: 0.0.1
 5
          author: xxxxxxxxx
          6
  7
          description: Infosys Intelligent Assistant
          long description: Infosys Intelligent Assistant
 9
          classifiers: ["Programming Language :: Python :: 3",
 10
                       "License :: OSI Approved :: MIT License",
 11
                       "Operating System :: OS Independent",]
          package_dir: {"": "src"}
 12
 13
          packages: src
 14
          python requires: ['>=3.6']
 15
 16
 17
          18
          version: 3.0.0
 19
          build: 0.0.1
 20
          author: xxxxxxx
          21
 22
          description: Infosys Intelligent Assistant
 23
          long_description: Infosys Intelligent Assistant
 24
          classifiers: ["Programming Language :: Python :: 3",
 25
                       "License :: OSI Approved :: MIT License",
 26
                       "Operating System :: OS Independent", ]
 27
          package dir: {"": "account specific"}
 28
          packages: account_specific
 29
          python requires: ['>=3.6']
```

Open command prompt and issue **set PYTHONPATH=src & python create\_wheel\_file.py** to create iia wheel file package for deployment. Package will get created inside **dist** folder upon successful build.



#### Deploy build file:

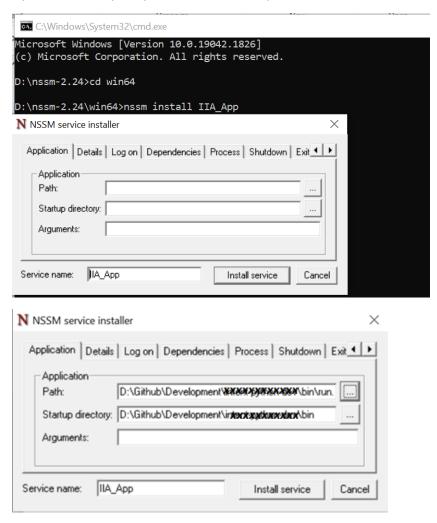
Install the same in client/deployment environment to deploy the code on issuing

pip install iia-3.0.0\_build\_0.0.1-py3-none-any.whl in command prompt

#### IIA as Service

Download **nssm package** and extract the zip. Place it either in C drive or D drive according to the system drive

Open command prompt and follow the steps below:



Click Install Service and start the service under services.msc