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**OBJECTIVE**

A Passionate Data Scientist having knowledge in creating data ingestion pipelines, Predictive modeling, Data pre processing, Machine learning ,Deep learning, Computer vision, Natural Language Processing to solve challenging business problems.

**CAREER SNAPSHOT**

* A competent professional with 5+ **years** of experience in IT.
* Experience in building models using Artificial Intelligence, Machine Learning, Deep Learning, Recurrent Neural Network, Computer vision, NLP and Python.
* Extensively worked through the phases of creating data ingestion pipelines, Model Design Life Cycle such as Data Preparation, Exploratory Data Analysis, Predictive modeling, Statistics, Model Training, Performance evaluation and Deployment, feedback loop creation.
* Extensively Worked on MLOps using ML Flow to manage the machine learning model lifecyle.
* Created Kafka ingestion pipelines using pyspark to read messages in 24/7 streaming mode and write to Delta Lake storage layer.
* Worked on clustering algorithms dividing dataset in different clusters to build a classification model based on cluster categories.
* Having hands on experience in creating and managing DataBricks clusters and creating job clusters which helps to reduce the cost.
* Experience in creating transformation scripts to build Dashboards using Google studio and Grafana.
* Having experience on different types of Machine Learning Algorithms such as KNN, XGBoost, Random Forest, Naive Bayes, Linear Regression, Logistic Regression, Support Vector Machine etc.
* Having hands on experience in creating and managing DataBricks clusters and also creating job clusters which helps to reduce the cost.
* Worked on extracting information from documents using NLP based models like Transformers, Bert, LayoutLM.
* Hands on experience with AWS Services such as EC2,inc RDS, S3, Athena, Sagemaker,Glue,SSM etc.
* Worked on performance evaluation techniques such as creating confusion matrix, Accuracy, Precision, Recall, R2,RMSE etc.
* Having experience in using Google cloud, and Aws Services.
* Having experience on containerized deployment approaches such as Docker, Kubernetes.

**TECHNICAL SKILLS**

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| --- | --- |
| Languages | : Pyspark, Python3.8, Java 1.8 ,SQL |
| Machine Learning  Algorithms | : XGBoost, Linear Regression, Logistic Regression, KNN, Decision  Trees, Random Forest, SVM, ARIMA etc |
| Deep Learning | : Pytorch, Keras, TensorFlow,ANN,CNN, RNN,LSTM, |
| NLP Techniques | : NER, Transformers,Bert,LayoutLM |
| Model lifecycle  Management | : ML Flow |
| Data Bricks | : Google Cloud, AWS |
| Messaging System | : Kafka |
| Search Engine | : Elastic Search |
| Dashboards | : Google Studio, Grafana |
| Model Deployment | : Docker,Kubernetes,Fast Api |
| Database | : Oracle,My Sql,Postgre SQL,Mongo DB |

**Certifications:**

* MLOps Certification from Psitron Technology Private Limited.
* Python Professional Certification from Programiz.pro.

**PROFESSIONAL EXPERIENCE:**

**PROJECT (****Classify DOO (Degree of Offense)):**

Employer : Accenture

Task Performed : Data Scientist

Duration : Sep 2021 to Till date

Technologies Used : Python 3.8,XGBoost Algorithm,Kafka,Pyspark,Data Bricks,Google Cloud,Docker

Client : HireRight

**Project Details:**

HireRight is the world's largest global provider of background screening solutions, helps organizations of all sizes hire the right people for the right opportunities.

HireRight collects the criminal information from court websites using web scraping. Developed a model to classify degree of offense of the person. In US they have majorly 3 types of offenses (**Felony,Misdemeanor,Non Criminal Offense**).

**Responsibilities:**

* Created Kafka Data ingestion pipelines.
* Performed Data Visualization, Data cleaning, Data Preprocessing.
* Trained model with the selected features using Data Bricks job clusters.
* Evaluated the performance of the model using Confusion Matrix, Precision,Recall,F1score.
* MLOps End to end Setup using MLFLow.
* Deployed model using Docker and Fast Api.

**PROJECT** **(Identity Resolution):**

Employer : Accenture

Task Performed : Data Scientist

Duration : Sep 2021 to Till date

Technologies Used : Python 3.8, SentenceTransformer('all-MiniLM-L6-v2'),Google Cloud,Data

Bricks,Kafka,Pyspark

Client : HireRight

**Project Details:**

Developed Identity Resolution model which identifies the employee is fake or not based on his personal,educational,employment,and criminal data.

**Responsibilities:**

* Created Kafka ingestion pipeline to read payloads from Kafka using Pyspark.
* Implemented PGP decryption algorithm to decrypt Kafka messages.
* Created Validation Pipeline to Validate Kafka messages writing valid messages to Delta Lake and Invalid messages to Quarantine Path of Google cloud Storage.

**PROJECT (****Receipts Fields Extraction):**

Employer : COGNIZANT

Role : Associate Engineer

Task Performed : Machine Learning Engineer

Duration : Feb 2020 to Sept 2021

Technologies Used : Python 3.8,Pytesseract,Deep Learning, LayoutLM Models ,Transformers, Kubernetes

Client : Verizon

**Project Details:**

Verizon is an American telecommunications company which offers mobile wireless products and services. It is a wholly owned subsidiary of Verizon Communications. Verizon Wireless is the first largest wireless telecommunications provider in the United States.

For postpaid customers we used go get the invoice created. Developed a model to extract the entities from those models.

**Responsibilities:**

* Extracted Ocr bounding box information for each line from the image using Pytesseract.
* Created label mapping file and appended bounding box information.
* Tokenized the dataset and applied state of art models like transformers and Layout LM models.
* Created Kubernetes cluster to deploy and manage the model.

**PROJECT (VEHS(Vision Error Handling System):**

Employer : INFOSYS

Role : Senior System Engineer

Duration : Aug 2018 to Jan 2020

Task Performed : Python Developer

Client : Verizon

**Project Details:**

VEHS is a error handling system. Helps to reprocess the accounts which rejected by Vision(Billing system).VEHS has two modules M1 and M2.

**M1:** M1 reads the Vision Rejected files and collects the rejected accounts.

**M2:** M2 reads error accounts collected by M1 and regenerates input files by removing error accounts which

will be sent to Vision for Rebilling.

**PROJECT (INS (Integration Solutions)):**

Employer : IBM.

Role : System Engineer

Task Performed : Java Developer

Duration : June 2017 to Aug 2018

Technologies Used : Java ,Spring,SpringBoot,Soap and Restful Webservices,Hibernate

Client : FMS (German Bank)

**Project Details:**

FMS Wert management is a German Bank was founded in 2010 as the Federal government’s winding-up institution for the nationalized Hypo Real Estate Holding AG (HRE Group) with the aim of taking over risk positions and non-strategic operations from the HRE Group and unwinding them.

In the Bank we have several upstream systems like MDS,Summit,SAP and Downstream system as DWH (Data Ware house. INS is the middle ware system which transforms data from upstream systems to Downstream systems. Worked on couple of projects to make the data delivery changes.

**SCHOLASTIC PROFILE**

2015 B.Tech (Electronics & Communication Engineering) from Sree Datta Institute of Engineering & Science, Jawaharlal Nehru Technological University, Hyderabad with 70%.

2011 Intermediate from Pragathi junior college with 87.5%.

2009 SSC from AVM High School with 90 %.

**PERSONAL DETAILS**

* Father’s Name : Mr. Narsimha Panasa.
* Nationality : Indian
* Marital Status : Married
* Date of Birth : 22 April 1994
* Languages Known : English & Telugu & Hindi

**DECLARATION**

I affirm that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Hyderabad (SRAVAN KUMAR PANASA)