**SATYAKAMESWARARAO R**

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**Overall Experience**

* 6.5 years of overall experience in the IT industry on multiple domains
* Currently working as a Senior Data Engineer for a Data Analytics Project
* Worked as a Data Scientist-Development in a Power Sector company
* Very good hands-on experience in Python, PySpark and RESTful web services
* Been working on Microsoft Azure Databricks (Cloud), Storage Explorer and Version Control Tools GIT, Bitbucket using Source Tree and Jenkins deployment
* Have good hands-on experience with frameworks like Django & Flask
* Possess good experience on Testing, Hadoop and its ecosystems
* Good Understanding over Agile Methodology and JIRA
* Involved in various client interactions, knowledge Transfer sessions and presentations

**Experience Summary**

* Working as a Module Lead for ValueLabs from April’21
* Worked as Engineer-II for Caterpillar (PR: Automotive Robotics India) from April’19
* Worked as a Data Scientist in DigiTele Networks from April’18 to April’19
* Worked as Programmer Analyst for Cognizant from March’10 to May’12

**Awards & Certifications**

* Udemy Python A to Z Certified Professional(Online)
* Udemy Computer Vision Certified Professional (Online)
* **ISTQB External** Certified Professional (2015)

**Education**

* B.Tech in Computer Science & Engineering (2005-2009) from SBIT-JNTUH

**Technical Skills:**

* Languages : PySpark, Python(v2.x,v3.x)
* Cloud : Microsoft Azure (Databricks, Storage Explorer)
* Libraries : Pandas, Numpy, OpenCV(v3.x), NLTK(v2.7)
* Frameworks : Flask(v2.0) , Django(v1.8)
* Big Data Technologies : Kafka, Hadoop, Hive, Sqoop
* QL : SQL, Mongo DB(v4.0), HBase
* Testing : PyTest, Manual & Automation Testing, Web
* Operating Systems : Windows, Ubuntu (v20,v16)
* Version Control : Git
* Deployment : Jenkins

**Professional Experience**

**Project #1**

**Name :** D2O-TTR Integration

**Client :** NielsenIQ

**Languages**  **:** Python, PySpark

**Technology** **:** Microsoft Azure (Databricks, Storage Explorer)

**Database :** PostgresQL

**VC :** Bitbucket

**Deployment :** Jenkinss

**Description:**

Currently different data sources are being used to fetch the required inputs for TTR and SPI simulation is run locally using Python script. The purpose of this project is to source all the required inputs from the one single data source which is the CIP factory. The developed Python tool connects CIP for the files preparation and the output files are stored on cloud in Blob storage.

**Roles and Responsibilities:**

* Develop & Testing the code using PySpark and Python
* Integration of the code with Microsoft Azure Blob storage
* Have good experience in creating and running the Job cluster in Databricks
* Testing, Reviewing and Debugging the code developed by Juniors
* Interacting with Client directly and getting the inputs
* Presentations and Demos on weekly basis to client for status updates

**Project #2**

**Name :** Practitioner API Integration

**Client :** Mednax

**Languages**  **:** Python, Gherkin (Behave)

**Technology** : PyTest, Flask, Rest API, GIT, Docker, Postman, Jenkins

**Description:**

Mednax allows the management of clinicians' certifications and credentials as part of onboarding and ongoing HR process. Key measures include increased ability to staff for growth and more effective and efficient management of credentials. The project is all about using Rest APIs, we need to pull and push the data to CARE platform where the it will be merged with MDB. This needs to be verified using user acceptance scenario as well as unit testing.

**Roles and Responsibilities:**

* Develop & Testing the code using Python in Flask to test REST APIs
* Scheduling the tasks to push and pull the data
* Designing Testcases for Unit testing and Acceptance Testing
* Integration with Kafka to retrieve the messages and extract the data from topics
* Testing, Reviewing and Debugging the code developed by Juniors
* Continuous Integration and Development (CI/CD) using GIT and Containerization using Dockers

**Project #3**

**Name :** Finches

**Client :** ARi**-**Finance

**Languages**  **:** Python, Java Script, HTML-CSS

**Technology** : Django, Chart.js, PostgreSQL

**Description:**

Linkus is an internal tracking tool of ARI. It is used to track the employee details, support tickets for any issues, Employee Leave Management and project mapping. Now, Linkus is being migrated to updated version in which new features like New screens for easy updating, Sales forecasting, Displaying Dashboards etc are getting added.

**Roles and Responsibilities:**

* Full Stack Development and Unit Testing
* Implemented Threading and Multiprocessing
* Created dashboards using Chart.js for visualizing the data in one click for higher management to understand easily.
* Performed CRUD operations on POSTGRESQL database for data extraction and update.
* Written Type Script for Angular
* Participated in preparing SRS document and presented it to lead.

**Project #4**

**Project** : VSG D6-Display

**Client** : Caterpillar Inc.

**Technology** : OpenCV, Tesseract, MongoDB

**Languages** : Python 3.X, Javascript, HTML

**Team Size** : 10

**Description:**

This is an Automation project based on Python to Test and validate Displays used in Mining and Construction Machines. These Display contain various features like different parameters, Indicators, Diagnostics Information, calibrations Information, Languages, Day-Night mode features, HVAC Features to name a few. To automate validation and Test above features we integrated software like Remcom (Capturing Images), Tesseract Library, Open CV, Canoe (Simulation) and Flash library using Python.

**Responsibilities:**

* Written the python code for socket programming to establish communication between Server and Client
* Querying and Integrating of MongoDB with Python
* OpenCV programming for image cropping, identification and Template Matching
* Guiding the team members and knowledge Transferring
* As a lead, contacting UI team for the front end design
* Updating the Test Plans, Test requirements as per the customer specifications to automate the tasks
* POC for various tasks related to Development and Testing between offshore and onsite teams
* Making presentations to explain the developments in the project

**Project #5**

**Name :** Aussim

**Client :** Caterpillar

**Languages**  **:** Python 3

**Technology** : Robot Operating System(ROS)

**Description:**

The idea is to Automate the entire Aussim model where SCOM and MTTT models are validated. To visualize the models, Unity and Dynasty software (CAT’s own) are being used and to transfer communication between models and visualization tools Python scripted Robot Operating System has been using.

**Roles and Responsibilities:**

* Script Development and Unit Testing
* Created Publisher and Subscriber to transfer communication
* Very good hands on in working with Robot Operating System
* Good understanding over Azure Devops and github

**Project #6**

**Project** : AI Implementation for Solar Power Plant

**Client** : Government of AP

**Technology** :Deep Learning (CNN), Computer Vision, HDFS

**Languages** : Python 3.X, PySpark, SQL, MongoDB

**Description:**

Solar energy is one of the major sources to generate power and entire world is going to depend on it in coming future. On grasping this moto, The GOAP has planned various solar parks in various places in their region. As solar power plants occupy large place, they should be protected and cleaned well to utilize or generate power to the best. As per the reports from ground, Manual work is not possible as it takes more time and work. Using DL, we have reduced the manual work and improved the efficiency of solar panels in generating the power.

**Responsibilities:**

* Written code to detect solar panels using OpenCV (Python)
* Have done image processing (annotating) with LabelME tool
* Retrieving the data and analyzing them using PySpark
* Implemented Predictive Modeling Techniques (Variable Selection, Model, Performance Tuning, Final Model and Model Performance) as part of Deep Learning (CNN)
* Have good hands on and understanding over the installation of TensorFlow
* Involving in various discussions and understanding the requirements
* Using Python (IDEs like Spyder, iPython (in Anaconda))
* Making presentations to explain the developments in the project
* Updating the tasks on daily basis to the manager