V SATYAKSHAJ RAJU PAKALAPATI

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Domain Skills: Python, SAS programming, Scala, SQL, Machine Learning, Data Science

PROFESSIONAL SUMMARY

- Experienced Software Engineer with expertise in developing and optimizing Python-SAS integrated Anti-Money Laundering (AML) applications. Proficient in workflow automation, system migrations, and enhancing compliance through fine-tuned scenarios and alert accuracy. Successfully implemented real-time monitoring dashboards and automated health checks, improving operational efficiency by 20%. Adept at collaborating cross-functionally and leveraging tools like Git, Apache Airflow, and Jenkins to streamline processes and ensure seamless deployments.

SKILLS

Languages: Python, C, Scala, Bash/Shell Scripting, SQL, SAS programming. **Database Management:** Duck DB, Postgres.
CI/CD and DevOps Tools: Git, Jenkins, Airflow, XLDeploy, Autosys. **Version Control:** GitHub.
Development Tools: VSCode, PyCharm, Jupyter, Linux, DBeaver, Grafana.
Data Analysis and Machine Learning: NumPy, Pandas, scikit-learn, TensorFlow, Keras, OpenCV, Seaborn, matplotlib, nltk ,TextBlob.

EXPERIENCE

Software Engineer, Societe Generale, Chennai, India **July 2023 – Present**
Nomos Aml (Python - SAS) Application **March 2024 – Present**

- I work on a Python-SAS integrated Anti-Money Laundering (AML) application. My responsibilities include Continuous Improvement on scenarios, **Enhancing alert generation** and **Workflow Automation** for improved compliance and risk mitigation.
- Automated daily health checks for SAS Viya servers using **shell scripting**, reducing manual intervention and improving system stability.
- Partnered with Business Analysts and Project Managers to identify and resolve issues, enhancing operational efficiency.
- Developed SQL queries to ensure data integrity, conduct frequency checks, and validate output file formats.
- Designed and optimized Apache Airflow workflows to streamline AGP execution, eliminating manual interventions.
- Enhanced AML alert accuracy by refining SAS scenarios and conducting Python-based regression testing to compare SAS Viya and SAS 9.4.
- Performed rigorous data validation and consistency checks to prevent discrepancies between Production (PRD) and UAT, ensuring scenario accuracy.
- Implemented data masking and anonymization to comply with regulatory standards, safeguarding sensitive information.

BANCS Cash and SITI Applications **July 2023 – March 2024**

- Managed the end-to-end lifecycle of the SITI, BANCS CASH, and DFP/NOY applications, driving a 20% improvement in deployment turnaround time.
- Orchestrated application version updates and deployments using XL Deploy, resulting in increase in deployment success rates by improving software release tracking and streamlining processes.
- Performed database patching during infrastructure maintenance windows to ensure system stability.
- Employed Jenkins pipelines for continuous integration and delivery, significantly enhancing automation efficiency.
- Executed production scripts as per developer requests, maintaining strict adherence to organizational policies and procedures.
- Handled incident management and change task execution, ensuring minimal service disruption during planned and unplanned events.
- Strategized and implemented blackout periods for holidays, freeze periods, and application downtimes, minimizing unnecessary incidents and preserving service reliability.

EDUCATION

Amrita Vishwa Vidyapeetham, Bangalore **June 2019 – May 2023**
Bachelor of Engineering, Computer Science Engineering *GPA 7.1/10*

- C Programming, Python, Data Structures and Algorithms, Distributed Systems, Data Science, Machine Learning, Natural Language Processing, Linux.

PROJECTS

Movie Review Analysis Using Sentimental Analysis | *NLP, Python, Pandas* | **May 2022 – Oct 2022**

- Built a sentiment analysis model to predict whether a given user review is positive or negative using a dataset of 10,000 rows. Improved classification performance through optimization, achieving an accuracy of 84%.

Plant Disease Detection using Convolutional Neural Networks | *Python, Tensorflow* | **Dec 2022 – March 2023**

- Developed and trained a Convolutional Neural Network (CNN) model to identify plant diseases by processing leaf images, achieving an 75% accuracy rate on the validation dataset.

CERTIFICATIONS

Python for Data Science and Machine Learning, Udemy

- Completed training on Python libraries (Pandas, NumPy, Matplotlib, Scikit-learn) for data analysis, visualization, and machine learning model development.

Spark and Scala Training

- Gained expertise in distributed data processing and big data programming concepts using Scala and Hadoop.
- Worked on multiple Hadoop functions, including data ingestion, transformation, and analysis, across diverse datasets to derive meaningful insights.