RAJESH SEEMAKURTHI

SR. SOFTWARE ENGINEER </> PYTHON

+91 9030805387 | rajesh.microsoftteams@gmail.com | linkedin.com/in/rajeshdata/

PROFILE

With nearly 6.5 years of expertise in Data Engineering & Data science specialized in transforming complex data into actionable insights across industries such as Fintech, Healthcare, Banking, and Marketing. As a Senior Data Scientist at Inspyretek (in association with NPCI), I lead high-performing teams in managing large-scale data operations, processing over 15,000 transactions per second. My core competencies include designing and deploying advanced fraud detection, anomaly detection, and anti-money laundering models using Python and cutting-edge Data Engineer Pipelines. Passionate about innovation, I thrive in cross-functional collaborations, delivering data-driven solutions that enhance business growth, operational efficiency, and profitability.

PROFESSIONAL EXPERIENCE

IKSPIDA (Sr. Software Engineer)   July 2023-Present

- **Client : NPCI Payments Gateway-(on-site) :** Designed and deployed a high-performance, real-time financial data pipeline to process millions of daily transactions for risk analytics, fraud detection, and regulatory compliance while ensuring 99.99% SLA reliability. Built a scalable, low-latency streaming architecture using AWS Kinesis, Spark Structured Streaming, and Lambda to ingest, process, and analyze 1M+ daily card transactions with FastAPI. Implemented real-time anomaly detection models (ML-based) using SageMaker to flag suspicious transactions, reducing fraud losses to minimal amounts.

Piramal Swasthya Pvt. Ltd (Data Scientist & Data Engineer)   Sept 2022 to Apr 2023

- Redefined data quality checks using NLP techniques along with roberta-base , to enhance data consistency, achieving a 95% performance improvement with PySpark. Led pipeline orchestration in AWS using Step Functions, reducing manual efforts by 30%. Focused on building generic, reusable NLP-driven processes, cutting development efforts by 20%.
- Implemented Time Series Analysis using RNN(ARIMAX, SARIMAX) across multiple healthcare datasets to generate proactive insights into future timelines. Automated code deployment across various environments using Python and Shell scripts.

Walsons Services Pvt Ltd (Data Engineer)   Nov 2020 to Aug 2022

- Designed and optimized Glue pipelines using Python, SQL, Apache NiFi (data staging/transformation), Kafka and Airflow for orchestration.
- Worked extensively with AWS, leveraging Athena for large-scale data analytics and Cloud Storage for efficient data lake solutions. used PowerBI for visualizations.
- Assisted in migrating on-premise data workflows to AWS Redshift, improving query performance by 30%+

IKSPIDA (Software Engineer)   Aug-2018 to July-2020

- Owned end-to-end DataOps pipelines and SLA compliance for critical data workflows.
- Collaborated with DevOps and Data Science teams to streamline MLOps workflows by implementing CI/CD pipelines, automating model training and deployment processes.
- Leveraged Terraform for IaC to version cloud infrastructure efficiently.

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- Data Persistence Checker Project : Assisted in designing and optimizing ETL pipelines for data extraction, transformation, and loading.
- ETL tools(Apache NiFi) to process large datasets.
- Supported data security compliance initiatives in alignment with company policies.

TECHNICAL SKILLS

- **Frameworks and libraries:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Keras, SQL. PySpark
- **ML Models:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, Neural Networks, GNNs, graph analytics, Networkx, Tensorflow
- **Cloud-platforms & Services:**
- **Apache :** Kubeflow, Airflow for handling huge pipelines, ArgoCD(+JenkinsCI), Kafka
- **AWS:** Glue, Lambda, IAM, Athena, Step Functions, SES, SQS
- **Visualization:** PowerBI, Apache Superset

EDUCATION

- JNTUA College of Engineering, Kalikiri (C E K) - Andhra Pradesh
  Bachelor of Engineering in Computer Science (6.8 CPGA)   **June-2018**
- Vignana Bharathi Jr. College - Chirala - Andhra Pradesh
  Intermediate - (PCM) - 91% (Overall Percentage)   **Apr-2014**