PURVA JAVALE

United States | +1(502) 650-1425 | purvajavale@gmail.com | LinkedIn | Portfolio | GitHub

PROFESSIONAL SUMMARY

Software and Big Data Engineer with 7+ years in fintech. Skilled in Java, Hadoop, Spark, SQL, and AWS. Experienced in building scalable ETL solutions, regulatory reporting, and cloud data solutions. Strong collaborator focused on delivering data-driven business impact.

PROFESSIONAL EXPERIENCE

Hexanika   **Pune, IN**
Software Engineer - Big Data Focus   February 2015 – January 2022

- Led the development of core modules in Hexanika's Smart Join platform, architecting scalable data ingestion, transformation, and rule prediction workflows using Apache Spark, Hadoop, and AWS, reducing manual effort by over 60% and ensuring full data lineage for regulatory compliance.
- Designed and implemented data cleaning and mapping frameworks using Hadoop and Spark, streamlining data transformation, validation, and enrichment processes—boosting regulatory reporting speed and accuracy by 40%.
- Developed and optimized end-to-end big data pipelines, automating workflows and job scheduling to achieve 100% process automation and reduce data processing time by 60% through advanced performance tuning.
- Installed, configured, and managed multi-node Hadoop clusters and AWS services (S3, EMR, EC2), and led Proofs of Technology to evaluate the scalability and impact of emerging Big Data capabilities.
- Executed a Spark-based Proof of Technology for Smart Join on IBM z/OS, integrating enterprise tech like WebSphere and IBM Studio to automate data flows from mainframe systems to analytics layers.
- Collaborated with machine learning teams to integrate generative models, contributing to data-driven insights and enabling cascading rule flows for industry-ready regulatory reporting models (FRY9C, Call report-FFIEC, HMDA-LAR, AML-SAR).
- Contributed to data lineage, enabling rule-based regulatory reporting with 100% transparency.
- Developed Hive-based data visualization solutions, SOAP APIs, and internal tools to enhance usability, reporting, and engineering efficiency.
- Led and mentored a team of data engineers, driving development efficiency while creating architecture diagrams, technical documentation, and hyper-care handoff guides to ensure smooth transitions and production stability.
- Supported Agile delivery as a technical contributor and Scrum coordinator, managing sprint boards, epics, and stories using JIRA and Microsoft Project Planner to improve team velocity and project transparency.

TECHNICAL SKILLS

Programming Languages: Java, SQL, .NET Core, Python
Framework: MapReduce, Hive, HBase, Spark, Kafka, Airflow, Windows Presentation Foundation
File formats: TXT, CSV, XML, JSON, AVRO, ORC, PARQUET
Operating systems: Windows, Linux
Cloud services & Database: AWS - S3, EMR, EC2, MySQL, SQL Server
Tools: Power BI Desktop, Team Foundation Version Control, GitHub, Eclipse, Visual Studio Code, PyCharm, Anaconda, Microsoft Project Management, Jira, Microsoft Office
Additional: Web Services-SOAP API, Performance Tuning, Agile Methodologies

CERTIFICATIONS

Cloud & Big Data: Master's of Big Data - TrendyTech, Databricks Fundamentals - Databricks, AWS Databricks Platform Architect - Databricks, AWS Certified Cloud Practitioner - AWS
Data & Analytics: Excel for Data Analytics, Java Performance Tuning - Udemy
Project Management: Agile Project Management - Google
AI & Emerging Tech: Generative AI - LinkedIn, IBM Watson - IBM
Legacy Systems: IBM Mainframe - IBM

AWARDS

- Awarded as Star Performer of the Year for Delivering Excellence in Projects.
- Awarded as Well-Done Achiever for successfully developing and presenting Proof of Technology for Spark on IBM z/OS.
- Secured second place for presenting innovative and impactful Fintech solutions at the hackathon.
- Received award and recognition for proactively taking project initiative and ownership.

EDUCATION

Savitribai Phule Pune University
Bachelor of Engineering in Information Technology   May 2014

VOLUNTEERING EXPERIENCE

Big Data Speaker, MIT Pune: Delivered a guest lecture on Big Data concepts and real-world architectures to help students align with industry trends.
Offsite Manager, Hexanika: Organized and managed the company's annual offsite, fostering cross-team engagement through technical and team-building events.

VISA DETAILS

Visa - H4 EAD (no sponsorship required)