

# PURVA JAVALE

## BIG DATA ENGINEER

well versed in Hadoop, Spark, Java, SQL, Power BI

### EXPERIENCE

#### Big Data Engineer | Hexanika | Pune, India | Feb 2015 – Jan 2022

- Designed and implemented a **Data Agnostic Engine** using Java, Hadoop, and Spark for processing the raw data, transforming and applying the business logics on the data for regulatory reporting.
- Designed and applied **algorithms** and **design patterns** enhancing program efficiency by **20%**.
- Developed **Data Standardization Engine** using Java, Hadoop and Spark for cleaning data and applying validations, transformations, and filters.
- Participated in the development of **schedulers** for automating and streamlining the processes, ensuring efficiency and accuracy which led to a revenue increase of **\$1M**.
- Designed **XML structure** for rules which are to be applied on raw data.
- Participated in the development and design of **Webservices (soap API)**.
- Designed and implemented VLOOKUP like functionality using **HBase, Hive**.
- Participated in development of **Hive** queries for analytics which helped in regulatory reporting.
- Experience working with Spark RDD using **RDD transformations** (Spark core) and **Data Frame** (Spark SQL).
- Collaborated with **cross-functional teams** to deliver actionable insights from complex datasets, contributing to data-driven decision-making.
- Worked with product managers to assist in **SDLC, Agile (SCRUM) Methodology**.
- Provided **technical guidance** and **mentorship** to junior team members.
- Evaluated **new technologies** and provided insights to improve data processing.
- Installed **Pseudo-distributed cluster** of Hadoop. Involved in analyzing system, troubleshooting critical issues, managing log files.
- Worked with systems engineering team to plan and deploy new Hadoop/Spark environments and expand existing **multi-node clusters**. Involved in analyzing system failures, identifying root causes, and recommended course of actions.
- Spearheaded** a critical software development project, achieving all objectives, delivering 95% of projects on schedule.
- Worked on projects which focused on **Proof of theory and Proof of concepts for banks** which involved harnessing Hadoop and Spark for scalable analysis. Revamped some of the data processing workflows, increasing productivity by **30%**.

#### Highlighted Project:

#### Senior Software Engineer | Citizens Financial Group Solution | Nov 2019-Mar 2021

- Involved in understanding of Business processes, reports and spread sheets for analysis.
- Participated in the development of Regulatory reports applying regulatory rules and processing those rules with data using spark. Automated this process for daily/weekly/quarterly/annual reports.
- Involved in Design of reusable **Data Agnostic Engine**. Designed High Level Technical documentation based on specification provided by the Manager.
- Involved in **Performance Tuning** to increase the throughput, troubleshooting the critical issues, managing log files.



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### SKILLS

**Programming Language:** Java, SQL, .NET, Python

**Database:** MySQL, SQL Server

**Bigdata Framework:** Hadoop, HDFS, Map Reduce, Hive, HBase, Spark, Kafka

**File Formats:** CSV, TXT, XML, Avro

**Operating System:** Windows, Linux, ZOS

**Cloud:** AWS (S3, EMR, EC2)

**Control Systems:** Team Foundation Server

**Build Tool:** Eclipse, Visual Studio, PyCharm

**Project Management:** Microsoft Project, Jira

**Data Visualization:** Power BI

**White Paper Analysis:** Google File System

**Additional:** Webservices (SOAP), Hibernate, Maven

### PERSONAL PROJECTS

In this Data Cleaning, we take data and transform it for analysis by using Python and Power BI.

### CERTIFICATIONS

Masters of Big Data (Trendy Tech-GOI), Agile Project Management (Google), AWS Practitioner Certification (AWS), Excel for Data Analytics (Analyst Builder), Java Application Performance Tuning and Memory Management (Udemy)

### AWARDS

Employee of the Year Award (Hexanika-2016), Best Innovative Idea (Hexanika hackathon-2018)

### EDUCATION

**Bachelor of Engineering in**

**Information Technology**

University of Pune-India, 2014

### INTERESTS

Bharatnatyam, yoga, traveling, gym workouts, treks, tennis, sketching.

### VOLUNTEERING

Served as a guest lecturer at Maharashtra Institute of Technology, Pune-India, representing Hexanika, providing insights into Big Data to over 50 students over a 3-day period.