**MANVI KISHORE**

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| **SKILLS** |
| • **Languages:** Python, Java 17, JavaScript, SQL, ReactJS, NodeJS  • **Data Management & Cloud:** MySQL, NoSQL (MongoDB), Apache Hadoop (HDFS, MapReduce), Apache Spark, Apache Storm, Apache Hive (ORC/Parquet formats), AWS (EC2, S3, RDS, Redshift, EMR, Lambda), Kubernetes, Grafana  • **Technology and Frameworks:** Spring Boot, REST API, Maven, Microservices Architecture, Object‐Oriented Design, Express, Redux  • **Testing & CI/CD:** Mocha, Cypress, SonarQube, JUnit, TDD, Git, GitHub, TeamCity, Jenkins, JIRA, Agile |
| **EXPERIENCE** |
| **Deutsche Bank *January 2023 – July 2023*** |
| *Senior Software Engineer* |
| • Achieved a **65% reduction in execution time** by redesigning and optimizing **Java based ETL microservice** applying predicate pushdown, partition pruning, broadcast joins, and caching within spark cluster  • Improved maintainability and readability by refactoring legacy Java codebase using **SOLID principles**, **DTO patterns**, **Lombok**, MapStruct, and Java Streams  • **Mentored** junior developer and improved code quality by conducting peer code reviews and promoting **TDD** and **clean code** practices |
| **Deutsche Bank *August 2020 – December 2022*** |
| *Software Engineer* |
| • **Reduced SLA breach penalties by 25%** by developing and deploying the Almanac microservice using **Java 17**, **Spring Boot**, and **MongoDB** to dynamically return data during SLA breach  • **Saved multimillion‐dollar penalties** by establishing the Almanac service as a core component of the regulatory data ecosystem  • Enabled regulatory reporting for **ingesting JSON loan data** by architecting a Java‐based ETL microservice with **Hadoop**, **Spark**, using **Jackson** for JSON schema validation and audit logging with **Log4j**  • Improved observability by building **REST APIs** with **Spring MVC** and exposing system metrics via **Prometheus** and **Grafana**  • Reduced manual processing **efforts by over 7 man‐days** per cycle by building a Hive‐based automation tool to convert data into **ORC** format using **J2EE** and **pySpark**  • **Decreased** **production** **defects by 30%** by creating and maintaining automated unit and integration test suites using **Junit 5**, **Mockito**, and **Spring Test utilities**  • Improved processing speed and code modularity by applying **Singleton** and **Factory** **design** **patterns** and Java Streams  • Improved latency of real‐time data resolution by integrating the microservices into **Apache Storm**, **supporting 15,000+ feeds**  • Secured inter‐service communication by implementing **Kerberos‐based authentication** and **Spring** **Security** with **OAuth2** in a microservice mesh |
| **EDUCATION** |
| **Purdue University** | *MS, Computer Science, GPA: 4.0/4.0* ***August 2023 ‐ May 2025***  **Motilal Nehru National Institute of Technology** | *BTech, Computer Science, GPA: 3.25/4.0* ***July 2016 ‐ June 2020*** |
| **PROJECTS** |
| **AWS ETL Pipeline for HTAP Database Comparison –** [**Thesis**](https://doi.org/10.25394/PGS.28908275.v1) **A*ugust 2024 ‐ April 2025*** |
| • Developed an **AWS ETL** pipeline using **Redshift**, **RDS**, **EMR**, and **S3** to compare **HTAP (TiDB)** with traditional ETL methods  • Created **PySpark** scripts to transform **CSV/JSON** data for Redshift ingestion via EMR cluster  • Examined real‐time transactional ingestion versus conventional ETL workflows for analytical workloads  • Benchmarked TPC-H and SSB to assess query performance and schema impact |
| **Global Gateway for Education *January 2024 – May 2024*** |
| • Created a dynamic web platform using **React.js**, **JavaScript**, **MongoDB**, and **Mongoose**, integrating responsive design, **Redux** for  state management, and RESTful API communication.  • Developed robust backend services with **Node.js** and **Express**, with secure **JWT‐based** authentication and Redis caching.  • Conducted comprehensive testing using **Mocha** and **Cypress** for unit, integration, and end‐to‐end validation.  • Leveraged **Heroku** for hosting, ensuring seamless deployment and rapid scalability. |
| **HONORS AND AWARDS** |
| • Defended and published master's thesis, DOI: <https://doi.org/10.25394/PGS.28908275.v1>  • Nominated for **Top 50** students 2025 at Purdue University  • Research paper under review at ***DEXA 2025*** *– International Conference on Database and Expert Systems Applications*  • Received the **Employee Recognition Award** at Deutsche Bank for outstanding performance, 2022 |