**Abhishek Kumar**

Mobile: 9999300932 | Email: [abhishekkumar2k@gmail.com](mailto:abhishekkumar2k@gmail.com) | LinkedIn Profile - <https://www.linkedin.com/in/abhishek-kumar-25098323>

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**SUMMARY:**

Data Engineering Manager with over 17 years of cross-functional & technical experience in designing and implementing Data Engineering, Data Analytics, ETL & Business Intelligence solutions for HealthCare, ERP & Commodity Trade Management domains.

**SKILLS:**

* **ETL, Data Warehouse, Data Pipelines** design & development.
* **Data Governance, Data Engineering, Data Analytics, Business Intelligence, Data Visualization, SQL Design, Data Profiling, Data Quality, Data Security, Data Modelling, Data Migration and Database Design.**
* **Project Management, Product Management and Resource Management.**
* **Process Improvement, Product Modernization and Cost Optimization.**
* **Cross-Functional** in **Product Owner**, Development, Testing & Business Analysis skills.
* **Agile, Scrum**, **DevOps and CICD.**
* **Production Operation Management**, O&M Incidents, Metrics review, IT chargeback planning and forecasting.
* **SOC2** statutory control audit management.
* **KPIs and OKRs** evaluation.
* **Machine Learning** with **Python ML libraries.**
* ETL & Data Storage migration on **Azure (Data Factory, Active Directory, Databricks & Snowflake).**
* ETL processing improvements with **Big Data tools (Spark, Scala, HDFS & HIVE)**
* **US HealthCare, ERP & Commodity Trade Management** domains.

**TECHNOLOGIES:**

* **Big Data Tools:** HDFS, HIVE, Spark SQL & Scala.
* **Cloud Computing:** Azure (Data Factory, Data Lake, Synapse, Databricks & Active Directory).
* **Databases:** Oracle, Teradata, NoSQL MongoDB, Snowflake, DB2 & SQL Server.
* **ETL/Data Ingestion:** DataStage, Mainframe, Unix & Python.
* **Business Intelligence/Data Analytics:** SQL, SAS, Cognos, Power BI, Tableau, MicroStrategy & Crystal Report.
* **Programming Language:** Visual Basic, Java, JavaScript & C/C++.
* **Applications:** Rally Agile Central**,** IntelliJ IDEA, TWS, Airflow, GitHub, Jenkins, ServiceNow, SonarQube & Undraleu.

**EXPERIENCE:**

**Optum Global Solutions Pvt. Ltd.,** **Gurugram, Haryana.**

**Data Engineering Manager –** 03/2007 to Present

* **Maintaining large scale HealthCare products with 1000+ ETL Data Pipelines and TWS/Airflow jobs, 9TB data / 40 billions of records, 1000+ BI Reports & Dashboard using Python, SQL, SAS, Excel Macros, DataStage, TWS, Airflow, Power BI, Tableau, MicroStrategy, Mainframe, Jenkins & GitHub.**
* **Providing hands on technical support in day-to-day operations like ETL design, data ingestion, data migration, data analysis, data mocking, data profiling and data visualization with end-to-end accountability from requirement gathering to implementation.**
* Managing **Data Governance** with data quality, data security, data availability & change management.
* Migrating On-Prem Data Storage & ETL operations to **Azure by using Data Factory, Active Directory & Snowflake.**
* Scaling up ETL & Data processing performance with **Big Data tools** by using various data sources **(databases & files), Spark & Scala**.
* Analyzing Healthcare and O&M data with **machine learning techniques (Regression, Classification & Clustering)** by using **Python ML libraries (Pandas, SeaBorn, Sklearn, NumPy & Metplotlib).**
* Working in **Agile & Scrum methodology with DevOps and CICD pipelines**.
* **Building cross-functional (BA, DEV & QA) team, Talent hiring and managed 15-20 resources,** delivering consistent coaching and constructive feedback.
* Managed **Airflow** implementation at portfolio level.
* Performing **Project Management** activities with project planning, estimation review, tracking issues & actual vs planned budget and working with team on technical/resource risks with mitigation plan.
* Work as **Product Owner** by defining and detailing user stories/features to the development team, prioritizing product backlog and evaluating product progress in each sprint using **Rally tool**.
* Work on **process improvements** with test & process automation **which gave up to $1.0 million annual saving**, technology upgrade, cost optimization and product modernization that improved overall product quality, decreased customer defects, reduced Total Cost of Ownership.
* Performing **Product Management** activities by including deep understanding of how to interpret customer business needs, translate them into application & operational requirements, working with technical team for actual development and managing product future roadmap.
* **Weekly/Daily connect with internal and external stakeholders** for updating on current project progress, discussing on upcoming requirements, ongoing issues/challenges and modules release planning.
* **Managing production operation and maintained up to 100% SLA**; reviewing incidents in **ServiceNow** & updating various **O&M metrics/dashboards**.
* **Planning & Forecasting IT chargeback** for current and future workloads**. Supporting annual SOC2 statutory control audit.**
* **Evaluating and tracking portfolio level KPIs & OKRs.**

**Binary Semantics Ltd. and Eximware Inc., Gurugram, Haryana.**

**Software Tester – 02/2005 to 02/2007**

* Performed requirements review, test planning, test cases design, integration, functional & system testing and bug tracking for **Commodity Trade Management** product’s modules.
* Set up test automation framework and perform test automation in IBM Rational Suit for Regression and Smoke Testing.
* Performed Integration (Functional & GUI) and Regression Testing for Data and Web applications. Provided Test status updates, Bug Report & Test Summary Report. Designed SQL query for various business test scenarios with data analysis.
* Mentored team on technical and functional skills.

**MLBD Pvt. Ltd., New Delhi**

**Software Programmer – 02/2004 to 02/2005**

* Performed Requirements gathering and analysis, coding & testing for **ERP modules** using Visual Basic, SQL Server and Crystal Report. Worked in Database design, data analysis, SQL writing, data modelling and data migration from old to new platform.
* Worked in **Startup organization culture; went above and beyond in current role & responsibilities and setup IT environment for running ERP application, managed end-to-end product life cycle from scratch to implementation with direct client interaction for resolving customer issues, production support, developed user help manuals and provided user’s training on developed modules.**
* **Performed Product Management activities** by working with users, understanding their requirement, **UX/UI designing**, working with technical team for actual development & implementation and defining the product’s future roadmap.

**CERTIFICATIONS & REWARDS:**

* **AHM-250** (Academy for HealthCare Management) from AHIP in 12/2008
* **SAFe Agilist** (Scaled Agile Framework) from SAFe in 11/2016
* **ISTQB** from ITB in07/2008
* Six Sigma-White Belt Lean Training in 05/2011
* Achieved Leadership Excellence, Sustaining Edge and spot recognitions in exceptional project deliveries and initiatives.

**EDUCATION:**

* **MIT (Information Technology)**, C.C.S. University Meerut, 1999–2001 with 70% marks.
* **B.Sc. (Math)**, C.C.S. University Meerut, 1996–1999 with 55% marks.
* **Intermediate-12th (Science)**, U.P. Board Allahabad, 1995–1996 with 58% marks.
* **High School-10th (Science)**, U.P. Board Allahabad, 1993–1994 with 61% marks.

**PROJECTS:**

* eCR (e-Services Customer Reporting) – ETL and Business Intelligence Product (UnitedHealth Group, USA)

Technology used: Oracle, Teradata, DataStage, Mainframe, TWS/Airflow, Python, VBScript, SAS, Unix & MicroStrategy.

Project Description: eCR is web-based analytics reporting application (with ETL/Data warehouse capability) having various interactive, automated, and published healthcare reports which uses Member, Medical, Customer, Claims, Financial, Inpatient & Outpatient subject areas data. It’s leveraged by underwriters, external customers/brokers and provides the ability to manage plan performance, identify trends & self-manage cost and utilization reporting needs.

* Galaxy – ETL & Data Warehouse (UnitedHealth Group, USA)

Technology used: Mainframe, DataStage, DB2, TWS/Airflow & Unix.

Project Description: Galaxy is an enterprise ETL and data warehouse that integrates customer, member, provider, product, and claims data from multiple source systems. Galaxy enables users to answer business questions about physician and plan performance, market share, and geographic variations in clinical practice, health outcomes, and more.

* Premium Designation - ETL and Business Intelligence Product (UnitedHealth Group, USA)

Technology used: SQL Server, SSIS (SQL Server Integration Service), .NET and COGNOS Reporting Tool.

Project Description: Premium Designation is an analytical application where physician, physician groups & hospitals are ranked based on their annual performance by analyzing their respective clinical data and user can search the best physicians by checking their clinical records.

* Data Delivery System - ETL Product (UnitedHealth Group, USA)

Technology used: Mainframe, DataStage, AutoSys and UNIX.

Project Description: Data Delivery System (DDS) is an ETL application that delivers operational data from the United Platform administrative applications to Alliance Partner’s data warehouse and downstream systems to support their data needs.

* Rainforest Alliance Certified Marketplace – Commodity Trade Management (ExImware & Rainforest Alliance, USA)

Technology used: Java, JavaScript, Oracle and Crystal Report.

Project Description: Rainforest Alliance (Products Traceability Platform) is a web-based application to manage the growing Coffee certification program. Database encompass the relevant activity of all companies participating in the RAC program (Producers, Exporters, Importers / Dealers and Roasters) to enable traceability of coffee from tree to cup as it moves along the coffee supply chain.

* TLM (Trade Lifecycle Management) – Commodity Trade Management (ExImware, USA)

Technology used: Java, JavaScript, Oracle and Crystal Report.

Project Description: TLM provides fully integrated suite of agriculture commodity trade and risk management capabilities, some key features are - Complete trade back-office life cycle for traders using different modules as: Contracts, Logistics, Futures / Option, Brokerage, Accounting, Sampling and Mark to Market.

* MLBDNEW – ERP product (MLBD, India)

Technology used: Visual Basic, Crystal Report, MS-Access and SQL Server.

Project Description: This product tracks inventory levels, orders, sales, deliveries, work orders and invoices. User can generate multiple reports as Stock Ledger, Stock Summary, Sale Register, Cash Sale register, Good Receive Register, Complimentary Register, and Approval Register, Cash Memo; Performa; Approval; Complimentary; Sale Return; Customer Order and Purchase Order can be performed.