

KRISHNA DIPAYAN BHUNIA

Senior Software Engineer | Senior Data Engineer | Python Developer

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SUMMARY

- **Seasoned Software Engineer/Full Stack Developer with 12+ years of experience** across industries like CRM, Oil & Gas, Financial, and FMCG. Over 6 years of expertise in Python as a **Data Engineer/Scientist**, specializing in **data engineering, analysis, and visualization**.
- Proficient in writing clean, **production-level Python code**, with **strong skills in Object-Oriented Programming, DSA, and relational databases**. Used Python libraries such as **NumPy, and Pandas** for advanced data analysis and engineering stuff.
- Experienced in designing software solutions using **Python, C#, and back-end technologies**. Adept in cloud platforms (**AWS, Azure**), **containerization (Docker)**, and **database management (SQL, No-SQL)**, with a strong ability to analyze algorithms and collaborate effectively.

EDUCATION

- **M.TECH (Computer Eng. with Specialization in Software Eng.)** Aug 2016 – Jun 2018
Veermata Jijabai Technological Institute (VJTI), Mumbai
- **B.E Computer Engineering (University of Mumbai)** Aug 2008 – Jun 2012

TECHNICAL SKILLS

- Languages & Frameworks: **Python, NumPy, Pandas, Java, JavaScript (jQuery), MS SQL, PL-SQL, Oracle, C# (C-Sharp), Docker, Github.**
- Data Engineering & Analysis: **Data Science and Data engineering processes, Data Analysis, Classification, Regression Analysis, Cluster Analysis, Data Visualization, Statistics, AWS (Amazon Web Services), Azure.**
- Databases: **MS SQL Server (2019/2017), MySQL, MongoDB, Oracle 19c.**
- Expertise: **DSA (Data Structures & Algorithms), Algorithm Analysis (Space & Time Complexity), Distributed Systems & Architecture.**

WORK EXPERIENCE & PROJECTS

Senior Data Engineer in Capgemini

Oct 2021 – Present

Client - P&G(Procter & Gamble) - (Role - Data Engineer, Developer)

Pune(Remote)

- Technical Stack: Python, Pandas, NumPy, MS-SQL 2022, JSON, VS Code, Azure, Azure Pipelines, Docker, GitHub.
- Proficient in Python for data engineering pipelines.
- Experienced with Pandas, NumPy for data processing and analysis.
- Skilled in client communication to gather data and project requirements.
- Set up and configured Azure pipelines for CI/CD of data pipelines.
- Created and optimized MS-SQL tables for efficient data storage.
- Populated metrics to Grafana Dashboard from manufacturing data.
- Designed ETL pipelines for data extraction from various sources.
- Applied statistical techniques and optimization for data contextualization.
- Delivered pipelines for leakage, defect detection, and insights.

Key Achievement - With accommodating data from multiple sources makes it easy to contextualize data for easy analysis purposes, which improves the manufacturing lines are more adhered to not making defects/leakages in product manufacturing. The defects/leakages have been reduced to half of the previous defects identified.

Software Engineer and Data Analyst in Larsen and Toubro Technological Services worked in Oil & Gas Domain

Jan 2020 – Oct 2021

(Role – Data Engineer, Developer)

Vadodara

(Python, NumPy, Pandas, SciPy, MS SQL Server 2017, Oracle 11G and Oracle 10G, xlrd, xlwt, openpyxl (Anaconda Navigator Framework)).

Plant Portal Data Analysis [Covestro, IPEP (Data analytics team)]

- Implementation for the process of Analysis (Deduplication, Data Segregation, File Reference Missing in Smart Plant portal, finding different equipment properties in plant portal, Different levels of data missing. Different file formats, Segregation and separation of different language formats, metadata, and migrated documents in smart plant portal).
- *Used Task, Thread and Parallel process and optimized codes with Singleton and Factory Design pattern.* Excel dynamic read and write with formatting using closedXML, OpenXML, EPPlus, Excel Data Reader.
- **Key Achievement** – *Computation has reduced time significantly for a large dataset and customer delivery satisfaction was achieved on-time.*

SPI (Smart Plant Integration) and SPEC [Covestro, IPEP (Data analytics team)]

- Data Comparison of migrating data from oracle to SQL Server. Generation of Excel Data and its comparison using EPPlus and generating reports. *Created Custom controls and User controls, Delegation of custom and user controls, Background task and multithreading with parameterized arguments, async and await tasks,* a comparison using multi and different primary keys also with dynamic and different key columns. Data view sync. Comparison checks for BLOB data and other Hash File data.
- *Implemented Task, Thread and Parallel process and optimized codes with Singleton and Factory Design pattern.* Excel dynamic read and write with formatting using closedXML, EPPlus, ExcelDataReader and Dataset in Visual Studio. Logging facility in python and used data frames.
- **Key Achievement** – *With multithreading and parallel processing output time has been significantly improved by more than 90%. Worked closely with cross-functional teams including plant engineers, data owners and site engineers to design, build and deliver end-to end solutions to their individual data conversion and wrangling problems.*

Software Engineer in Quantum Mutual Fund worked in Financial Domain

Aug 2018 - Jan 2020

(Role – Full Stack Developer/ Data Engineer)

Mumbai

Invest Online (INON) - Backend Developer

- Developed business logic for investment in Q-MF & transaction, Re-Purchase, Redemption, Switch, New Purchase, STP, SWP, SIP.
- Optimized backend SQL code for Investors, used to do KYC according to their citizenship with different criteria & process form in different queues.

Software Engineer in Smart Solutions worked in CRM, FMCG Domain

Oct 2013 - July 2018

(Role – Full Stack Developer)

Mumbai

Inventory management and services - Backend Developer

- Capturing, managing, and maintaining inventories and managing. Assigning blocks and holding inventories.

Graduate Engineer Trainee in Godrej & Boyce worked in CRM Domain

Oct 2012 - Sept 2013

(Role – Full Stack Developer)

Mumbai

Timespan- Attendance and Leave management system, Assets management system & Drawer depository safe - Application

- Capturing, managing, and maintaining attendance and leaves for the employee in the company. Migrating assets and system information to standard format.

CERTIFICATION AND LINKS (Recent)

- LinkedIn & Pluralsight Certificates - **#Using Python with Excel #Data Wrangling with Pandas for Data Engineers**