Dharm Bhusan Singh

Software Engineer

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EXPERIENCE

INFOSYS |Data Engineer (Specialist Programmer)
september 2022 – Current | Pune, India

➔ Successfully led data engineering projects in the health sector using Apache Spark, Python, and SQL. Developed and implemented solutions that optimized data processing workflows across Hadoop and cloud platforms, including Google Cloud Platform (BigQuery) and Microsoft Azure (Azure Data Factory, Azure Databricks).

➔ Designed and developed scalable big data processing pipelines using Hive and Spark

➔ Employed Spark optimization techniques like caching and broadcast joins to improve data processing speed and efficiency.

➔ Create ETL (extract, transform, load) jobs to extract data from multiple sources, transform it into a standardized format, and load it into a data warehouse for further analysis.

TCS | Data Engineer
July 2019 – september 2022 | Pune India

➔ Design and development of dashboards and reports pertaining to various business domains such as Finance, Healthcare, and Manufacturing practices.

➔ Data manipulation and troubleshooting issues related to databases, queries, and data integrity, work to resolve these problems efficiently using SQL.

PERSONAL PROJECT

SALES DATA MART   2024

➔ Objective: Designed and developed a data mart for the sales department in the retail sector, facilitating day-to-day analysis and reporting. Utilized technologies such as Apache Spark, Python, SQL, and Hadoop streamline data processing and improve decision-making capabilities.

➔ Implemented structured data models, including dimension and fact tables, to provide valuable context for point-of-sale data analysis.

➔ Technology Used: Spark, Python, SQL, Hadoop.

VEHICLE POOL TCS PROJECT (INTERNSHIP)   2018

➔ Objective : Build software that facilitates vehicle sharing among employees.

➔ Technology Used: MySQL database, html, Java

SKILLS

TECHNOLOGY

Spark• Hive• Big Query Hadoop• SQL• HQL• mongod• Data structure & Algorithms• DBMS• Operating System• Linux(Linux architecture, Ubuntu)

PROGRAMMING

Proficient:
Python• C • Shell Script • SQL • C++ •

Experienced:
Python • Shell Script• SQL

Familiar:
Java •

LIBRARIES/FRAMEWORKS

pyspark • NumPy • Pandas • OOPS concept •

TOOLS/PLATFORMS

Google Cloud Platform (BigQuery,GCS)• Microsoft Azure (Azure Data Factory, Azure Databricks) • Jupyter Notebook• Google Colab• Data Stage

EDUCATION

CUSAT

B.tech in Information Technology 2015-2019
Cum. GPA: 8 / 10

B N INTER COLLEGE

Higher Secondary from BSEB Patna 2012-2014
Cum. 67.2 / 100

SSAVP HIGH SCHOOL 2011-2012

Matriculation from BSEB Patna
Cum. 67.8 / 100

ACADEMIC PROJECT

PLACEMENT-CELL MANAGEMENT SYSTEM (Mini Project) **(Guide: Prof. Jabir K V T, July 2017-Nov 2017)**
- ➔ Objective: The objective is to create a Placement Cell Database Management System that utilizes interactive forms and reports, enabling effective workload management for the placement process.
- ➔ Automating forms with computers on a local area network or wide area network enables efficient placement management.
- ➔ Technology Used: HTML, JavaScript, PHP, SQL.

CANCER DETECTION (Major Project) (GUIDE:PROF. JABIR K V T, AUG 2018-PRESENT)
- ➔ Objective : Using patient records and gene data, we have developed an AI platform that assists cancer experts in accurately determining whether a patient is affected by cancer or not, with high accuracy and reduced efforts.
- ➔ Technology Used: Machine Learning, Python, scikit-learn