

DEBADUTTA DEY

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Objective:

A MSSQL programmer with newly attained skills, an extreme intellectual curiosity, and the ability to mine hidden treasures sited within enormous sets of structured, semi-structured and unstructured data and ability to leverage a substantial dose of mathematics and applied statistics with visualization and a strong sense of exploration.

Technical Competencies:

Data Science Skills:

R	Python	Machine Learning
Story Telling with Data	MySql	Tableau
Big Data	Hadoop	Hive
Pig	Hbase	Flume
Open Refine	Excel	Latex

Data Management Skills

Microsoft MSSQL 2008r2,2012,2016	T-SQL	Error Logging and handling
Advanced SQL Querying and programming	Query Performance Tuning	MongoDB
MongoDB Administration	SSRS	Reporting Services

Professional Experience:

Software Analyst **05/2016 - Present**
Yardi Systems Pvt. Ltd., Pune

- Developed SQL Server Stored Procedures, developed User Defined Functions and created Views.
- Extensively used Joins and sub-Queries to simplify complex queries involving multiple tables and optimized the procedures and triggers to be used in production.
- Designing, Developing or Modifying reports upon end users request using SSRS and inhouse reports.
- Reviewed existing business procedures and recommended and implemented changes.
- Creating and automating the regular Jobs.

Associate Database Developer **02/2014 - 05/2016**
Bentley Systems, Pune

- Interacted with Team and Analysis, Design and Develop database using ER Diagram, Normalization and relational database concept. Involved in Design, Development and testing of the system.
- Designed and developed physical data models and created DDL scripts to create database schema and database objects, SQL Server Stored Procedures, Tuned and optimized SQL Queries (using Indexes, Execution Plan and Profiler), User Defined Functions and created Views.
- Reviewed existing business procedures and recommended and implemented changes and responsible for setting preferences for various ad-hoc requests and distribution of tasks.

- Created and automated the regular Jobs, involved in performing database Backup and Recovery.
- Involved in performing data conversions from at les or excel sheet into a normalized database structure.
- Tested and identified vulnerabilities in different web applications posing a high risk to industry and communicated them to responsible developer for remediation and provided solutions to the developers to mitigate the vulnerabilities.

Internship
Bentley Systems, Pune

10/2013 - 02/2014

- Vulnerability Testing on the IMS website in QA environment.
- Database optimization of IMS.
- Database Developer.

Data Science Project Experience:

(i) Project Name: Walmart sales case study

- **Branch:** Retail
- **Team:** 5

Summary: This project was to understand about business management and project planning. Gained an brief idea about analytics used in various retail industry. This project gave an idea about CRISP-DM Methodology.

Objective: Understand the

- main trend of analytics in various industry.
- current analytic capabilities of Walmart.
- Business understanding align the analytics goal with business and Stockholder Management

(ii) Project Name: Kisan Call Center

- **Branch:** Call Center
- **Team:** 5

Summary: This project was done to understand how to understand business problem and model the data accordingly and how effectively Customer center can serve farmer calls better.

(iii) Project Name: Implementing and Integrating Clean Energy in India

- **Branch:** Energy Industries
- **Team:** 4

Summary: India wants to move to Renewable Energy source. This project was to understand Production, distribution, usage and how to convert fossil energy source to clean energy source in India.

Objective:

- Analysis on Energy Production, Distribution and usage in India.
- Steps to Explore data and how to shape data according to business problem.
- How to convert from fossil energy to clean energy in India

Degree	Institution Name	% or CGPA	Year
MTech (CSE)	Kalinga Institute of Industrial Technology (KIIT)	8.56	2013
BTech(CSE)	Kalinga Institute of Industrial Technology (KIIT)	7.15	2011
Higher Secondary Education	Royal College of Science and Technology(RCST)	63.33%	2007
Secondary Education	St Vincent's Convent School	74%	2005

Professional Education:

Best Paper Award:

- **Modified C_K Secure Sum Algorithm for Horizontally Partitioned Database at IEEE - International Conference on Research and Development Prospects on Engineering and Technology (ICRDPET)**, pp. 293-298, vol.5 bearing ISBN 978-1-4673-4948-2, March 2013.

Papers Published:

- **Mining Association Rule for Horizontally Partitioned Databases Using CK Secure Sum Technique at International Journal of Distributed and Parallel Systems (IJDPS)** Vol.3, No.6, November 2012.
- **A Survey on Privacy Preserving C4.5 Algorithm over Vertical Database at 7th National Conference on Computing for Nation Development (Indiacom)**, pp. 397-400 bearing ISSN 0973-7529 and ISBN 978-93-80544-06-9, March 2013.
- **Modified C_K Secure Sum Algorithm for Horizontally Partitioned Database at IEEE - International Conference on Research and Development Prospects on Engineering and Technology (ICRDPET)**, pp. 293-298, vol.5 bearing ISBN 978-1-4673-4948-2, March 2013.
- **A Novel Approach: CART Algorithm for Vertically Partitioned Database in Multi-Party Environment at IEEE Conference on Information and Communication Technologies (ICT)**, pp. 278-283, bearing ISBN 978-1-4673-5758-6, April 2013.
- **Privacy Preservation in Horizontally Partitioned Databases using Randomized Response Technique at IEEE Conference on Information and Communication Technologies(ICT)**pp. 284-289, bearing ISBN 978-1-4673-5758-6, April 2013.

Extra Curricular Activities:

- Ranked **1008** in **WNS Analytics Wizard** by **Analytics Vidhya**.
- Currently pursuing **Post Graduate Program in data science and machine learning** from Jigsaw Analytics Academy in partnership with **University of Chicago** and **IBM**.
- Successfully completed **MongoDB M102** Training.
- Successfully completed **MongoDB M202** Training.
- Won first prize in **Software Design** contest in **Bentley Systems**.
- Secured **First** position in **Orazone**, an event in **Zazen**.
- Organised **BULLS AND BEARS** event in **Kritansh 2011**.

References:

Will be available upon request.