VINOD KUMAR SINGH

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Corporate Functional Summary

- 9 years of experienced professional and expertise in multiple data platform like **SQL SERVER**, **Excel**, Oracle, **Redshift, Domino Data Lab** and **Anaconda Environment**
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- 4 years of experience in **Data Warehouse** implementation to manage large datasets
- 5 years of experience to setup **Data Ingestion**, **Data Pipeline** and **Data Processing**
- Good at **client handling**, team handling, project management and training team members
- Completed multiple projects based on **Data Modelling,** Data warehouse and Data mining
- Migrated live application and database from **Azure to AWS** environment
- Build **Kafka** and **Spark** data pipeline to process the real time data from multiple sources
- Used SQL Server, SSIS, SSRS and SSAS for handling weekly and monthly incremental data
- Keep practicing on data structures like **List**, **Stack, Queue, Tree, Graph** and **ML Algorithms** to enhance problem solving skills
- Designed Smart Alerts for **Predictive Analytics** using **Machine learning** and **Python**
- Basic usages of **Linux command** on project level
- Conceptual knowledge of ML algorithm like **Linear & Logistic regression**, **Decision tree**, **Random Forest,** Gradient boosting, Neural Network, Deep Learning, Bayesian Networks, Monte Carlo Markov Chain and SVM
- Good knowledge of **networking concept** on-premises and cloud environment

Skill Sets

- **Language:** Python, T-SQL, PG-SQL
- **DBMS:** SQL Server 2017, Amazon Redshift, ORACLE 11G
- **Distributed Computing Environment:** Apache Spark (Spark SQL+ MLlib), Databricks
- **Cloud Computing:** AWS, Azure, GCP
- **Server, OS:** Windows Server 2016 Datacenter, Linux
- **Tools:** Anaconda, Aginity Work Bench, Domino Data Lab, Jupyter Notebook, Excel, SQL Server Management Studio, SQL Server Data Tools, RStudio, vscode and Toad

Educational Qualification

- B.Tech (CSE) from KIIT University, Bhubaneswar, in 2008-2012 with CGPA 8.9
- 12th from SSN College, Varanasi (UP Board), in 2006 with 79.6%
- 10th from SSN College, Varanasi (UP Board), in 2004 with 73.33%

Professional Experience
PharmaACE Analytics (Apr 2016 to till date)   Pune, India
Client: Bristol Myers Squibb
1. Claims Data Analysis (US Oncology Market) (Mar 2017 to till date)   Project Manager

Tools: Redshift, simple storage services, SQL Server 2017, Python, Excel, AWS, Office-365, WINSCP, Azure ML Studio, JUPYTER Notebook, Anaconda Environment, Domino Data Lab and Cloudberry

Description: Integrated multiple claims datasets for boosting coverage and analytics capability. Setup and applying business rules to integrate different datasets to get the unique patient claims record.

Understanding of patient, provider and payer relationship. Using of the key components of claims like diagnosis codes, procedure codes, patient, physician and products details for generating business insights/strategy & performance analysis

- **Patient Level Analytics**: Patient Journey, market share at new patient and total patient, patient counts by cohort, patient monitoring for various testing and scanning
- **Physician Level Analysis**: Track number of Prescribers, prescribing behavior and switch analysis
- **Treatment Pattern:** Treatment choice identification, defining line of therapy & persistency analysis
- **Predictive Analytics:** Designed smart alert to predict patient line of therapy for effective promotion

Responsibilities:

- **Team handling** by assigning and explaining the work to execute the Ad-hoc requests on time
- Discussion with a client, finalizing business rules, **impact analysis** and coverage analysis
- Designed **data ingestion, data pipeline** using domino data lab and python
- **Data validation**, data backup, code backup and quality check of data after every step
- Created multiple schemas, **stored procedure**, processing data and weekly deliverables exportation
- Designed dynamic dashboard to monitor processing, quality check and better reporting
- Using Excel for quick data understanding, scenario comparison, dash-boarding and representation
- Created **ML Model** using python and machine learning algorithms
- Initially data integration, data processing and business rules implemented using **T-SQL**

2. BRAD: Forecasting tool development (Apr 2016 – Feb 2017)
Tools: SQL Server 2017, VBA, EXCEL, SSIS, XML, TABLEAU
Description: Building a product for pharmaceutical company having lots of feature which will help domain user for knowledge base, forecasting, feeds, community practice.
Responsibilities:

- **Designed database** for dynamic **forecasting platform** & deployed database on client environment
- Linked Excel forecasting tool with database for predicting long term revenues by product/country
- Created stored procedure based on business rules and loaded forecasted data in database
- Created SSIS packages to load all user's files by version in database using scheduled job
- Upgraded tools based on **SQL-XML** logic to directly interact with database

IDBI Intech Limited. (Mar 2015 to Mar 2016)   Mumbai, India
1. MIS-Regulatory (Priority Sector Lending)   Database Developer
Tools: SQL Server 2012 – SSIS, SSRS, SSAS, Oracle11g, Toad, Office 2013, Putty, Edit Plus
Description: Priority Sector Lending is an important role given by the Reserve Bank of India (RBI) to the banks for providing a specified portion of the bank lending to few specific sectors like agriculture and allied activities, micro and small enterprises, poor people for housing, students for education and other low income groups and weaker sections.
Responsibilities:

- **Performance tuning**: Removing the redundant logic, replace the slow running code, uses of optimizer hints, creation of suitable indexes and tuned the SQL query
- Implement the change data capture efficiently, stored the transaction log and fast debugging with the help of log table, audit and alert system
- Automated manual intervene tasks and moved to IT OPS team
- Daily basis data processing, dump file generation, cumulative data matching and inform to the client
- **ETL** (implementing business logic) creation using SSIS tool to load data in **Data warehouse**
- SSRS Report creation using direct SQL or MDX query based on business needs

Tata Consultancy Services (Sep 2012 to Mar 2015)   Mumbai, India
SBP DATA WAREHOUSE **(**Sep 2012 - Mar 2015)   System Engineer

Tools: SSIS, SSRS, SSAS, SSMS, SQL Server 2008, SVN

Description: The Strategic Banking Platform (SBP) data warehouse is specifically designed for managing accounting requirements, providing information on assets under management, product income, clients and relationship managers.

Responsibilities:
- Extract monthly raw data from the source Olympic Core Banking system
- Transfer and load processed data in Data warehouse using an ETL tool
- Build small functional data marts from the Data Warehouse
- Developed cube on Data marts to provide Ad-hoc analysis to end-users

Honor and Activities
- Member of technical team in Indian Science Congress organized at KIIT University
- I qualified Microsoft written test in pool campus organised at KIIT University
- Actively participated in Annual Sports meet organized at KIIT University
- Actively participated in technical fest 'KRITANSH 08' of KIIT University
- Secured first position in class 10th throughout my school

Profile links
- https://www.hackerrank.com/vinod176singh
- https://www.techgig.com/vinodsingh25
- https://www.codechef.com/users/vinod176singh
- https://www.hackerearth.com/@vinod176singh
- https://www.linkedin.com/in/vinod-kumar-singh-69525149/

Personal Details
Date of Birth: 25th Jun 1989
Visa Permit: USA (B1/B2)
Language: English and Hindi
Hobbies: Swimming, Solving Puzzles, Sudoku and keep updated with latest technologies