RUTHWIK REDDY RATNA

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EDUCATION

Arizona State University (ASU), Tempe, Arizona

Masters in Computer Science

National Institute of Technology (NIT Raipur), Raipur, India

B.Tech.Electronics & Telecommunication Engineering

Coursework: Statistical Machine Learning, Data Mining, Data Processing at Scale, Pattern Recognition, Data Structures,

Artificial Intelligence, Digital Image Processing, Neural Networks, Probability and Stochastic Process etc.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, SQL, Scala, Shell

Web Technologies: HTML5, CSS, Bootstrap, JavaScript, SASS, jQuery, React. is, React Native, Node. JS, Express. JS, REST and SOAP web services, Typescript

Tools, Database and OS: Microsoft Power BI, Oracle BI, Cognos BI, Query Surge, SQL Server Management Studio,

PostgreSQL, Netezza, MS Office Suite, Windows, MacOS, Linux/Unix, Jira, Azure Boards.

Familiar Interdisciplinary Areas: Retail sales Informatics and Health Informatics.

PROFESSIONAL EXPERIENCE

WIPRO LIMITED, Chennai, India: Project Engineer (Big Data Analyst).

July 2018 – July 2021

August 2021 - Present

July 2014 - May 2018

GPA: 4.10/4

GPA: 3.44/4

- Had 3 years of experience in developing BI applications utilizing SQL server, Power BI, Query Surge and Oracle BI.
- Responsible for Extracting, Transforming and Loading (ETL) data into the Data warehouse from Heterogeneous databases such as Oracle, DB2, SQL Server and MS Access.
- Developed complex and customized Stored Procedures and Queries for implementing business logic and process in backend, for data extraction, reports and other client interfaces.
- Designed expressions to calculate, group, filter, parameterize, and format report contents.
- Designed and developed Power BI graphical and visualization solutions with business requirement documents and plans for creating interactive dashboards. Implemented several DAX functions for various fact calculations for efficient data visualization in Power BI.
- Analyzed the data collected from retail outlets is streamlined in a proper way as per the business requirement and many operations on data are made as it fits in business requirement.
- Established the connections between Power BI and databases which are one of the sources of data to Power BI and retain data based on business requirements.
- Generated Power BI reports and validated them for functionality and accuracy of the report for drawing meaningful insights.
- Experience with Agile based project management and worked with rapid technical design and implementation of the
- Awarded Best Employee award for outstanding performance while enhancing the model without impacting the existing functionality. Worked as a **Team Lead** for the team of size 8.

ACADEMIC PROJECTS

Large-scale Geospatial Data Analysis using SparkSQL (Skills: Hadoop, Spark, Scala, Eclipse, AWS EC2, MapReduce)

- Performed Geospatial Data Analysis using SparkSQL on New York Taxi data to recognize the areas with high pick-up probability.
- Created 3 Master-Slave Elastic Cloud Compute (EC2) instances of Amazon web services with Apache Spark and **Hadoop** frameworks.
- Implemented Hot Zone and Hot Cell analysis on this dataset by communicating through password-less SSH protocols and identified 50 hot zones.

Time Series Data Analysis to Detect Meal Intake from Glucose Data (Skills: Python – Pandas, NumPy, Scikit-learn, Machine learning models)

- Performed statistical analysis on Insulin and Glucose Time series data to determine the meal intake times of a diabetic
- Extracted significant features from the data and classified meal and no meal data based on these features using Support Vector Machine.
- Clustered these data into bins of glucose range 20 using **K-means** and **DBSCAN** and performed cluster validation using SSE, entropy, and purity.