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Career Profile

Career Profile Dates	Organization	Role
March 2018 to till date	TCS	Data Engineer

Summary

Involving in various tasks related to Data Modeling, Data Analysis, Design and Development for Data warehousing environments. Practical understanding of the Data modeling (Dimensional & Relational) concepts like Star-Schema Modeling, Fact and Dimension tables. Comprehensive knowledge and experience in process improvement, normalization/de-normalization, data extraction, data cleansing, data manipulation. Exceptional troubleshooting skills with ETL related Technologies.

Professional Summary

Project : Shrink Analytics Value Engine

Project Duration: Nov 2018 - Till date

Client : Amazon

Role: Data Engineer

The Shrink Analytics Value Engine(SAVE) will move aggregated data to a tool which also incorporates High Risk Value(HRV) data. The tool's predictive analytics will provide data driven decisions to Global Loss Prevention(LP) in order to reduce overall company shrink.

Responsibilities:

- Experienced with full development cycle of a Data Warehouse, including requirements gathering, design, implementation, and maintenance
- Developed an ETL processes for different shrink parameters using Amazon homegrown ETL tools
- Developed an Hadoop EMR job in AWS for asin median price calculation
- Analysed an existing pig scripts for HRV automation and developed a new HRV down stream process using AWS SQS via lambda function.
- Developed Multiple Batch processes for Streaming data integration from OLTP(Redshift) to OLAP(MySQL), HRV down stream from application to OLTP using AWS Batch.
- Strong data analysis skills - working with data scientists for various business use cases provided by Amazon Loss Prevention team
- Engages with team members including data scientists and application developers to understand the data needs of the warehouse, turn them into logical patterns or requirements, and structure solutions as required by the business
- Designed and Developed a redis cache for SAVE using Jedis java library in AWS Elasticache environment
- Experienced with J-meter performance testing in SAVE
- Have good knowledge in API development ,Object Oriented Programming , Data structures and Algorithms

Project : Virtual Stylist

Project Duration: Mar 2018 – Nov 2018

Client : Neiman Marcus Group

Role: API Developer

Virtual Stylist is a robust secure web application which helps customers to get assigned with agent or the Virtual Stylist. They can have conversations on their personal styles for customer to attend their functions, the stylist would suggest the matching design for the customer.

Responsibilities:

- Working with Business Analysts to extract all the business rules and understand the business requirements.
 - Closely worked with Enterprise Architects on technical design and implementation.
 - Prepared Enterprise Architecture diagrams to facilitate the implementation.
 - Developing Restful services using Ruby on Rails Framework.
 - Involving in project management to ensure the team meets deadlines.
 - Improve QA process to ensure the continuous delivery.
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Github Projects:

- Developed Linear, Polynomial Regression models for House price prediction & Salary prediction based on Employee position
 - Developed Logistic Regression model for item purchase with Social Network Ads dataset
 - Developed Sentiment Analysis system using nltk library in python with Restaurant review dataset
 - Developed Market Basket Optimization technique using Apriori algorithm in python
 - Developed Alexa Skills using AWS Lambda function and Web Service as an end point, and learned most of the features of Alexa Skills Kit like SSML tags, Including card in response, Sessions feature, Built-in intents and slots, Account linking feature using gmail API.
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Courses Completed:

- Completed comprehensive-alexa-skill-development-course in udemy.
 - Completed Statistics for Data Science and Business Analysis course in udemy.
 - Completed Machine Learning Course in Python– Hands on in udemy
 - Completed Hands-on with Amazon Redshift course in udemy
 - Completed Bigdata Engineering with Hadoop and Spark with hands on in cloudxlab environment.
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Profile Links:

- <https://github.com/Prakash059>
 - <https://www.linkedin.com/in/prakash-thavamurugan-3207a47a/>
 - <https://www.hackerrank.com/Prakash059>
 - <https://www.datacamp.com/profile/tparakash059>
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Technical Skills:

- **Language** : Python, Java
- **Database** : Redshift, MySQL, Oracle
- **AWS** : Ec2, S3, Elasti-cache, SQS , Cloud watch, Batch, API Gateway, Alexa