Navya Karri

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EDUCATION:

1) University of Houston – Clear Lake, Houston, Texas, USA   Jan 2020 – Dec 2021
   Master of Science in Management Information Systems
   GPA-3.5/4.0

2) Keshav Memorial Institute of Technology, Hyderabad, India   Aug 2015 – May 2019
   Bachelor of Technology in Computer Science
   GPA-8.0/10

PROJECTS:

1) Web-Customer-Tracker

- Developed a Database Web application using Spring MVC and Hibernate which serves as a centralized repository for customer and sales information where the application's user interface was coded using HTML,CSS and JSP.
- Architected Service Facade design pattern to integrate multiple data sources designed using Data Access Objects and deployed Apache Tomcat to serve as Java Application Server.
- Established Database connection to MySQL Workbench in the development environment using Hibernate session factory which enhanced the performance by making the application database independent and reducing the redundancy, applied eager and lazy loading concepts to fetch data from the database tables.
  Technical Stack: CRM (Customer Relationship Management) ,Spring MVC, Hibernate, Eclipse, Java Servlets, Tomcat Server, Hibernate Query language, Java Annotations, MySQL Workbench.

2) Analysis and Prediction of GDP Using Various Indirect Factors

- Implemented linear and polynomial regression algorithms by computing prior and correlation of GDP with each of the indirect factors like CO_2 emissions, Literacy rate, Happiness rate, Child Mortality rate and Homicide rate of the respective country.
- Adopted Django framework to design User Interface.
- The model explains about 94% of the variation in the dependent variable and R squared metric shows 0.94 proportion of variance explained by independent variables.
  Technical Stack: MVC, Python, Spyder, Project Jupiter, Django.

3) Data Engineering- E-Commerce data

- Collected transnational data that includes all purchases made by a UK-based and licensed non-store online retailer between 2010 and 2011 and performed preprocessing techniques such as data cleansing using python pandas.
- Dimensional data Modeling has been applied to segregate measures and dimensions which are further used to design the star schema.
- Devised SQL-Server to develop the database and deployed it to visual studio to build a data cube to draw meaningful insights from the data provided.
  Technical Stack: SQL, Pandas, MS-Access, SQL-Server Management Studio, Visual Studio.

PROFESSIONAL EXPERIENCE:

Colibrium- The Health Plan   Dec 2018 - Dec 2019

Line of Business – Health care

Overview: A new Care Management platform called Drive to be developed which replaces the existing Care Connect system. This application is accessible by THP internal users with various business roles like disease management, utilization, case management, pharmacy, executive and system admins. The solution is to calculate high risk and rising risk populations and to identify care gaps and design care plans specific to member conditions, utilization management with various analytical reports.

Responsibilities:

- Development of complex orchestration and scheduling systems.
- As a part of orchestration, developed a flow to allow transforming response to another request: JSON transformation micro service.
- Developed notification, alerting, service monitoring and scheduling systems.
- Developed generic style micro services which have limitless applications.
- Performing Functional, Regression and Integration testing from both Customer and Admin log-in's
- Testing the web services.
- **Config Manager**: Micro service to store runtime configurations to avoid unnecessary builds.
- **Notification Manager**: A One place solution to configure aa the templates and to send notification using different stratergies.
- **Alert Manager** : It is used to alert users on different events.

UNIVERSITY EXPERIENCE:

University of Houston – Clear Lake, Houston, USA   June 2021- Dec 2021

Graduate Teaching Assistant

- Tutoring students both individually and in groups with the concepts of the course and improvising their solutions.
- Assist the Professor in designing the coursework, monitor the student comprehension of the subject and provide feedback.
- Making use of the opportunity to learn and assist students with more programming logic, design methodologies using Java.

  Technical Stack: Java, Object Oriented Programming, Advanced java concepts.

SKILLS:

Languages & Databases: Java, Python, C#, C, SQL, Data Structures, PL/SQL, JavaScript.
Frameworks: Spring MVC, Hibernate, REST API, Postman

CERTIFICATIONS:

- Oracle Certified Associate, Java SE 8 Programmer
- Oracle Cloud Infrastructure Foundations 2020 Certified Associate
- MTA: Database Fundamentals