

Sanjana Vivek Singh

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EDUCATION

The University of Texas at Dallas

Master of Science, Business Analytics

Dean's Excellence Scholarship

May 2024

GPA 3.9

Shri Ramdeobaba College of Engineering and Management (RCOEM), India

Bachelor of Engineering, Computer Science and Engineering

October 2020

GPA 3.5

TECHNICAL SKILL EXPERIENCE

Certifications: AWS Fundamentals: Going Cloud Native, Introduction to Big Data, Master Data Management by Informatica, Java Business Development

Analysis Tools: MS Excel, R, Python, SQL, Hadoop, Spark, Alteryx

Programming: C, C++, C#, Java, DataWeave, NoSQL

Visualization: PowerBI, Tableau, MS Visio, UML

Databases: MySQL, Oracle, DynamoDB, MongoDB

PROFESSIONAL EXPERIENCE

Accenture, India

December 2020 – June 2022

Full Stack Engineering Analyst

- Developed MuleSoft REST APIs with API-led connectivity to facilitate user data integration from source to various target systems and deployed the code using Azure DevOps to make deployment a fully automated process.
- Improved user experience by providing email reminders and opt-out functionalities, added cloud security measures, cloud threat protection policies and client enforcement to protect sensitive user data.
- Worked in the role of a Business Analyst and analyzed the current system and proposed a new architecture to replace the legacy architecture to increase performance and enable use of data insights.

Amazon, India

January 2020 – July 2020

Systems Development Engineer Intern

- Implemented settlement of seller payments and reimbursements through java APIs, integrated them with AWS storage (S3, DynamoDB) and EC2 instances and deployed the code by configuring CI/CD pipelines.
- Participated with a team and won a hackathon across the seller space teams from India and USA where the idea was to locate the exact point of failure in a workflow and generate triggers with failure information.

ACADEMIC PROJECT EXPERIENCE

Deepfake Video Detection using Convolutional Neural Network

August 2019 – December 2019

- Procured relevant dataset, preprocessed it, applied CNN using python and ML principles along with visualization techniques with an accuracy of up to 70%. Published a research paper on the same in the IJATCSE journal.

Fitness and Nutrition Tracking Database Management System

October 2022 – December 2022

- Developed the entire system, including design of database schema, implementation of constraints, views, triggers, stored functions, procedures, and execution of complex queries. Additionally, conducted research on the fitness market and presented findings in a business presentation to pitch the solution.

Cox Automotive Case Study – Predicting Retail Value of Vehicles

October 2022 – December 2022

- Investigated the factors that affect the retail value of vehicles and answered important questions related to whether the retail price of a vehicle should be guaranteed, and the risks associated with such a guarantee. Designed a predictive model for retail vehicle prices using AWS to incorporate all the relevant factors identified in the study which provided accurate predictions of vehicle retail values, which can be used to inform pricing decisions in the retail industry.

Breast Cancer Prediction Using Analytics with R

October 2022 – December 2022

- Employed a combination of data visualization, pre-processing, logistic regression, KNN method, decision tree analysis, and neural network techniques in R to predict and diagnose breast cancer, with an accuracy of 94%.

ORGANIZATION EXPERIENCE

Code.exe Club, UTD, Technical Officer

February 2023 - Present

Rotaract Club, RCOEM, Volunteer

August 2017 – December 2017

Robotics Club, RCOEM, Member

September 2017 – June 2018