Deeja Chhabra

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Education

- University of Texas, Arlington, Masters (MS) in Computer Science, **GPA: 4.0**   **Jan 2024**
- Mody University, Bachelor of Technology in Computer Science, **GPA: 7.31**   **May 2019**

Work Experience

Data Analyst, Infosys   **Jun 2021 – Oct 2021**

- Excellent understanding of Data analysis, Data Services, Data Warehousing (DW & DWH) Enterprise Data Warehousing (EDW), ETL Process (Extract Transform and Load) using SQL query tools and applications.
- Design of Cloud architectures for customers looking to migrate or develop new PaaS, IaaS utilizing MS Azure or AWS.
- Designed and built database objects – cursors, triggers, views, stored procedures, and functions to build reports relating to conversion rate insights.
- Authored user documentation detailing data analysis techniques and methodologies to facilitate comprehensive understanding of complex data sets.
- Collaborated with a team of three as the problem manager, utilizing advanced MS Excel, SQL, and Tableau to provide data-driven and actionable insights.
- Expert level knowledge in Data Profiling, Data Quality, Data Cleansing, Data Management, Predictive Analysis, Data Mapping.
- Translation of Database Reporting needs into SQL queries that extract Data and create relevant reports.
- Created and loaded packages to resolve data issues on SQL servers, resulting in a 70% increase in performance using fine-tuned and optimized processes.
- Identified and extracted relevant data from large data sets using data reduction and mining techniques.

Graduate Teaching Assistant, UTA   **Jan 2022 - Current**

- Provided support to students in mastering advanced techniques for Design and Analysis of Algorithms while facilitating their comprehension of key concepts.
- Adhering to all relevant academic policies and procedures, including grading standards, academic integrity, and student privacy.

Academic Projects

Cloud based Earthquake Data Service | **Python, Flask, HTML, SQL**

- Utilized Azure Data Studio's built-in tools to create and manage the data table including defining data types and accessing them.
- Developed a Cloud based Earthquake Data Service enabling users to search for earthquakes within a specified location such as occurring in only California, occurring within 100 kms of a specified location.
- Maintained a user-friendly interface allowing users to interact with the data with a success rate of 99%.

Web Application – MS Azure, Azure Data Studio| Python, Flask, HTML, SQL, Redis Cache

- Conducted Performance Testing using restricted Queries to reduce the time taken from 20 sec to an average of 4 sec.
- Usage of Redis Cache in order to improve the performance of web applications by caching frequently accessed data.
- Developed a web application on MS Azure using Python, Flask, HTML, and SQL, managing a large dataset with an average response time of less than 1.5 seconds.

Machine Learning from Scratch | Linear, Logistic Regression, LDA, NN, SVM, Python, NumPy, Pandas

- Built and deployed Machine Learning models from scratch using Python and relevant libraries, including NumPy, Pandas, Scikit-learn.
- Created a custom neural network library in Python utilizing OOP concepts, achieving 85% accuracy on test data.
- Utilized MLXTEND and updated weights and biases to plot decision regions, resulting in 90% accuracy on the Iris dataset.

NLP Classification, CNN, All-CNN | Pycaret, Python, NumPy, Pandas, Scikit Learn

- Developed a Sentiment Analysis model using Pycaret and achieved an accuracy of 90% by implementing text classification techniques.
- Processed text data using NLP-based tokenization, lemmatization, and vectorization to improve model accuracy by 20%
- Implemented early stopping with callbacks to prevent overfitting, ensuring model robustness and generalization.

Skills

- **Languages:** Python, Flask, SQL, HTML, R Programming, C++, Java
- **Databases:** MS SQL Server, MySQL, Linux
- **Cloud Services:** MS Azure, Amazon Web Services (AWS)
- **Certifications:** DeepLearning.AI TensorFlow Developer Specialization, Microsoft Technology Associate (MTA), Microsoft Certified Azure Fundamentals, Microsoft Certified AI Fundamentals, Microsoft Certified Data Fundamentals, Tableau Essential Learning (LinkedIn).

Achievements

- Appointed the President of Indian Mavericks Society (Fall 2022) at the University of Texas at Arlington.
- Entrusted with the position of General Secretary of Athlon (Athletic Society), Mody University.
- Received Championship Trophy for Infosys Hyderabad in Inter DC Sports Competition (Basketball).