

DEEJA CHHABRA

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Education

University of Texas at Arlington

Dec 2023

Master of Science in Computer Science | GPA 4.0/4.0

Course Work- Cloud Computing, Data Mining, Machine Learning, Artificial Intelligence, Database Models and Implementation Techniques, Design and Analysis of Algorithms, Data Analysis and Modelling Techniques

Mody University of Technology and Science, India

May 2018

Bachelor of Engineering in Computer Science | GPA 7.31/10.0

Course Work- Compiler Design, Theory of Computation, Operating Systems, Data Compression.

Experience

Senior System Engineer, Infosys

Jun 2018 - Nov 2021

- Collaborated with project team members to build Python Programs utilizing OOP concepts according to the client's requirement.
- Communicated with stakeholders to identify the business requirement and implemented python scripts which resulted in a smooth work structure leading to an increase in revenue by 30-35%.
- Translated database reporting needs into SQL queries that extract data and create relevant reports.
- Incorporated Joins and sub-queries to simplify complex queries involving numerous tables while optimizing procedures in production.
- Served as the contact person for administering SAP systems on a Linux environment.
- Experienced Analysis, evaluation, and critical thinking abilities.
- Experience in reporting and documentation of system bugs that are forwarded to the development team.

Academic Projects

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

Mar 2023

- Utilized Azure Data Studio's built-in tools to create and manage the data table including defining data types.
- Developed a Cloud based earthquake data service that enables user to search for earthquakes within a specific location.
- Designed and implemented a user-friendly interface that allows users to interact with earthquake data.

Web based Interface utilizing MS Azure, Azure Data Studio, Redis Cache | *Python, Flask, HTML, SQL, Redis Cache*

Feb 2023

- Conducted performance testing on a dataset using restricted Queries to measure response time and identify areas for optimization.
- Using Redis Cache to improve the performance of the web app by caching frequently access data in memory.
- Adaptability and willingness to learn new technologies, tools and techniques to stay current with industry trends.
- Overview of the web app service architecture and design, including the front end and back-end components.

Machine Learning from Scratch | *Linear, Logistic Regression, LDA, Neural Network (NN), SVMs, Python, NumPy, Pandas*

Sept 2022

- Designed predictive analytical Models from scratch and trained them on Iris Dataset.
- Updated Weights and biases and leveraged MLXTEND to plot decision regions to achieve an accuracy of 90% on Iris Dataset.
- In depth analysis of Data to leverage Machine Learning Models on it.
- Constructed the neural network library from scratch including layers, number of neurons to be passed, activation functions, loss functions using Python OOP concepts resulting in achieving an accuracy of 85%.

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

Nov 2022

- Developed Sentiment Analysis Model using PyCaret after doing thorough research on it and text classification techniques.
- Performed NLP based Tokenization, Lemmatization, Vectorization, and processed data in Machine understandable language.
- Defined Callbacks to implement some type of Early Stopping to prevent Overfitting as Accuracy reaches 90%.
- Constructed a CNN, All-CNN, CNN utilizing Transfer Learning to classify Food-101 Dataset having 101 classes.

Technical Skills

Languages : Python, Flask, SQL, HTML, R Programming, C++, Java

Databases : MS SQL Server, MySQL, Linux DB

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).

References available on request.