Perumalla Litesh

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Professional Summary

Data Science graduate student with a 4.0 GPA and a strong foundation in data analysis, machine learning, and deep learning methodologies. Adept at developing innovative solutions using Python, R, and powerful data visualization tools like Power BI and Tableau. Project experience in predictive modeling, image recognition using CNNs, and data mining. Committed to leveraging analytical expertise and collaborative skills to drive impactful business insights and technological growth.

Education

University of North Texas *Jan 2024 – Dec 2025*
Master's in Data Science *GPA: 4.0/4.0*

- **Coursework:** Data Visualization, Data Analytics, Data Mining, Machine Learning, Data Modeling, Data Engineering

Technologies

Data Analytics Algorithms: Linear Regression, Logistic Regression, K-Mean, KNN, Neural Network

Deep Learning: Artificial Neural Network (ANN), Convolutional Neural Networks (CNN)

Software: MySQL, MapReduce/Hadoop, Power BI, SPSS, SAS, TensorFlow, PyTorch, PySpark.

Programming Languages: Python, R, Cleaning, Exploratory Data Analysis, Data Mining and Machine Learning.

Work Experience

Discovery Park Library Services Academic Assistant *Denton, TX*
University of North Texas *Oct 2024 – Present*

- Delivered comprehensive in-person, phone, and virtual assistance to over 100 students and faculty per week, enhancing their ability to effectively access and utilize library resources.
- Collaborated with faculty to identify and connect them with specialized resources, contributing to more effective teaching and impactful research projects.

Volunteer Experience

Teaching Assistant Internship *Denton, TX*
Intensive English Language Institute— University of North Texas *Oct 2024 – present*

- Facilitated interactive group activities and managed classroom operations for 100-minute weekly ESL sessions over seven weeks, enhancing student participation and learning outcomes.
- Delivered tailored support to students with varying language abilities, resulting in marked improvements in comprehension and communication skills.

College of Information Student Ambassador *Denton, TX*
University of North Texas *Oct 2024 – present*

- Collaborated with a diverse team of ambassadors to coordinate activities, support college initiatives, and provide guidance to incoming students.
- Contributed to creating a welcoming and engaging environment for students, encouraging academic growth and involvement within the college.

Publications

Web Security using Cryptography: An Empirical Review May 2004

Projects

Skin Cancer Detection Using Convolutional Neural Network *2024*

- Engineered and implemented a Convolutional Neural Network **(CNN)** model on a dataset of over **10,000 medical images**, achieving early lesion detection with an **85%** identification accuracy
- Tools Used: Python, matplotlib, sci-kitlearn, numpy, pandas, Tensorflow, MLPClassifier, ANN.

Predicting Liver Disorder Using Machine Learning. *2024*

- Developed and trained an Artificial Neural Network **(ANN)** model to predict liver disorders, achieving over **90%** prediction accuracy using a comprehensive medical dataset.
- Tools Used: Python, matplotlib, sci-kitlearn, numpy, pandas, Tensorflow, CNN.

Data Analysis using Excel *2021*

- Conducted in-depth data analysis on demographic datasets across multiple states, categorizing types of disabilities and presenting findings in a detailed analytical report.

- Tools Used: Excel, Power Point.

Stock Analysis using SQL *2021*

- Conducted in-depth data analysis on demographic datasets across multiple states, categorizing types of disabilities and presenting findings in a detailed analytical report.
- Tools Used: SQL, Excel, Power Point.

Awards & Scholarships

Lucille Murchison Graduate Scholarship Oct 2024

- Awarded for exceptional academic performance and commitment to research excellence in data science. This prestigious scholarship recognizes top-performing graduate students who demonstrate outstanding dedication, maintaining a 4.0 GPA.

Achievements

Secured Runner up in HackUNT overall category Oct 2024

- Secured 2nd place in HackUNT hackathon at the University of North Texas by designing an ML-based fraud detection system for Goldman Sachs using Python and machine learning libraries; deployed an interactive web application with Streamlit, achieving high accuracy in fraud detection.