HARSHITHA REDDY KANCHERLA

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EDUCATION

Master of Science, Computer Science, Syracuse University, NY, USA | **GPA: 3.81/4**   **Aug 2023 - May 2025**

EXPERIENCE

Data Analyst | Sai Likitha Indane   **Sep 2021 – July 2023**
- Analyzed **85K+ entries (2019-2022)** to uncover customer purchase behaviors and sales trends.
- **Identified sales behavior patterns** and helped increase sales by **10%** in **2022-2023** through data-driven insights.
- **Built interactive Tableau dashboards** for sales tracking and **optimized stock management** to prevent overstocking/understocking.
- **Developed SQL queries** for data extraction, reporting, and **KPI** measurement to enhance operational efficiency.

Machine Learning Intern | Zebo.AI, India   **Jun 2021 – Aug 2021**
- Solved real time projects like detection of diabetics using **Supervised Machine learning** techniques like **SVM** in **Python** and conducted **statistical tests** and model validation to achieve an accuracy of 87%
- Gained hands-on experience in the following areas like: **Algorithm Development**, Model Training, **Problem Solving**, Documentation and Collaboration.

SKILLS

Programming Languages : Python (NumPy, Pandas, Scikit-learn, Keras, TensorFlow, PyTorch, Matplotlib, NLTK, C, JAVA, R, SQL, Javascript
Data Science Skills   : Supervised Learning (Regression, Classification, Decision Trees), Unsupervised Learning (Clustering), NLP,Neural Networks, Deep Learning, LLM, Bayesian Networks.
Web Technologies   : HTML, CSS, JavaScript, Node JS
Tools   : MongoDB, GitHub, MS Excel, Tableau, Power BI, JIRA-Confluence, Spark, Linux, Shell Programming

CERTIFICATION AND ACHIEVEMENTS

- Certified by Verzeo for the successful completion of the course "**Machine Learning with Python**".
- Earned certification from AWS(**AWS Academy Graduate - AWS Academy Data Analytic)** validating expertise in **data analytics, AWS Glue, Redshift, and Lambda**, with hands-on experience in **cloud-based data processing and visualization**
- Presented a paper titled "**Predicting brain stroke IOT enabled Deep Learning and Machine Learning: Advancing Sustainable Healthcare**" at 2023 Annual Scopus International Conference on Sustainable development using AI, ML, IOT.

PROJECTS

Distinguishing Mental Health Categories on Reddit Using NLP
- Built an **NLP** model using deep learning to classify Reddit posts into mental health categories like depression and anxiety.
- Preprocessed **6,000+ posts**, applied **TF-IDF**, **sentiment analysis**, topic modeling, and implemented **Logistic Regression**, Structured Perceptron, and **LSTM** models.

Designing HR Recruitment Database – University Medical Centre
- Designed **SQL**-based relational database to manage job postings, applications, interviews, onboarding, and performance tracking.
- Developed queries, **stored procedure**s, **triggers**, and reports to ensure data integrity, automation, and efficient recruitment processing.

Traffic Accident Analysis Using SQL & Python
- Analyzed real-world traffic accident data to identify patterns, high-risk areas, and severity trends.
- Used **SQL** for data extraction, trend analysis, and performance tracking, and built **Tableau** dashboards for visualization.
- Applied **statistical tests** and predictive modeling to assess risk factors influencing accident rates.

Prediction of Future Sales of Retail Store using Regression
- Implemented advanced **statistical regression** models using **XGBoost** to analyze sales trends and predict future demand with an r score of 87%

Prediction of Brain stroke using Deep Learning and MRI scans
- Deployed **Image Processing** for analysing brain MRI scans and also leveraged DL technique called **Densenet -121** to predict if the person is in the risk of having a stroke or not and had an **accuracy** of **96%.**