

# Uday Sai Shankar Kola

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## Education

### George Mason University

Master of Science in Data Analytics Engineering  
Major in Computer Science; Minors in Statistics  
GPA: 3.83/4.0

Fairfax, VA

Jan 2024-Currently Pursuing

Relevant Coursework: Software Engineering; Cloud Computing; Database Systems; Artificial Intelligence

### Andhra University College of Engineering

Bachelors in Electronics and Communication Engineering

Visakhapatnam, India

Jul 2017 – Jul2021

## SKILLS

**Programming Languages:** C, Java, Python and UNIX

**Database Languages:** MySQL, Oracle, Postgre SQL, PLSQL

**Visualization languages and Tools:** R language and Tableau

**Soft skills:** Microsoft Excel and Customer Service

**Cloud Computing:** AZURE, AWS, and Oracle Cloud, Databricks

**Machine Learning and Deep learning:** LSTM, Random Forest, Decision Trees, Logistic Regression, Gradient Boosting, Clustering

**Natural Language Processing (NLP):** TF-IDF, Bag of Words, LSTM

## PROJECTS

**Toxicity Level Identification [ML,Deep Learning, Python, LSTM,TFIDF]:-** Developed a toxicity level identification model using NLP techniques on a dataset of 97,000+ samples, achieving 90%+ accuracy with **LSTM, TF-IDF, and Bag of Words** approaches. [Link](#)

**Taxi Fare Prediction [Keras,Pyspark, SQL, Databricks, Gradient Boosting]:-**Built a taxi fare prediction model on a dataset of 3.6M+ rows, incorporating weather data via feature engineering; achieved **96%** accuracy using **Gradient Boosting and Random Forest with hyperparameter tuning**. [Link](#)

**Obesity Levels Predictions | R ,Logistic regression, Decision Trees, Random Forest and Clustering|:**Predicted the obesity levels of individuals on their lifestyle habits and heredity using several regression techniques, **Decision trees, random forest models** and several Clustering techniques [Link](#)

**Credit Score Prediction | CNN|RNN| CATBOOST|Tensorflow|**

Developed a credit score prediction system leveraging diverse parameters such as age and financial factors, achieving a predictive accuracy of **84%**.Implemented and evaluated multiple machine learning models including **CNN, RNN**, and Random Forest to determine optimal performance.Integrated the model into a real-time web application, utilizing **Flask** for backend development and ensuring seamless deployment with a pickle-based model file. [Link](#)

**Design and Implementation of a database [MySQL, ER Diagrams and Relational Schema|**

Designed and implemented Library Database individually using MySQL workbench, Optimized the SQL queries and tuned them in such a way that it gives the most accurate and efficient results (Compared to 58 others, my queries retrieved the data faster by 28%

## WORK EXPERIENCE

**COGNIZANT TECHNOLOGY SOLUTIONS** (*Multinational IT services and Consulting company*)

Hyderabad, India

Associate

Sep 2021 – Dec 2023

- Provided technical support and troubleshooting to over 150 customers, achieving a 95% issue resolution rate within 24 hours.
- Developed and optimized database solutions using **Oracle Database, PLSQL, UNIX, Oracle Forms, and Oracle Reports**, reducing downtime by 30%.
- Designed and implemented **packages, stored procedures, triggers**, and complex **SQL queries** to meet user requirements, delivering 99% accuracy and timely results.
- Conducted thorough testing and validation of SQL queries, packages, and reports, enhancing data accuracy and integrity by 20%.
- Diagnosed and resolved database performance issues, including query optimization and memory leak detection, ensuring seamless operations.
- Executed **ETL scripting**, data migration, and conversion projects, streamlining data workflows and improving efficiency.
- Identified root causes of software issues through debugging, log analysis, and code review, reducing recurrent issues by 35%.
- Monitored and maintained critical systems, including job scheduling and batch processes, achieving 98% uptime and minimizing downtime by 20%.

## EXTERNAL CERTIFICATIONS

- Microsoft Cloud Fundamentals (**AZ-900**) - Certification ID: 992954694
- Oracle Cloud Infrastructure Foundations Associate