Naga Mounica Gani

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EDUCATION

Master's in Data Science - University of Texas at Arlington   05/2026
Secured a GPA of 4/4

Bachelor's in Electrical and Electronics Engineering – RMK Engineering College
Secured a GPA of 8.06/10   05/2014

PROFESSIONAL EXPERIENCE

Senior Consultant   08/2022 to 03/2023
Virtusa   Hyderabad, India

Defined and executed the project strategy by developing scalable frameworks, significantly improving test coverage and release efficiency. Led cross-functional teams to implement CI/CD automation pipelines, reducing manual effort and deployment time.

- Skills Gained – Java, Python, Presentation , Data Analysis, workflow, BDD, Page object model, Cucumber, Selenium.

Technology Analyst   02/2015 to 03/2021
Infosys   Hyderabad, India

Designed and executed end-to-end test plans across web and iOS platforms like functional, security, API, and integration. Automated test cases using Selenium, Work soft Certify, and Postman, managed defects. Developed and maintained BDD/POM frameworks to enhance regression testing across to maintain an application.

- Skills Gained – Java, Python, Data Analysis, TestNG, Selenium, ARC and Postman, SOAP UI, Android Studio, Appium

PROJECTS

HeartCare: Predictive System for Early Diagnosis of Heart *Disease* **–** Built ML models (Logistic Regression, Random Forest, XGBoost) on large real-time datasets; achieved 98% accuracy with XGBoost for clinical decision support.

- Skills Gained - Data Science, Python , Medical Data , Data Science, Exploratory Data Analysis, Algorithms

Potential Flight Delay Predictions Using Machine Learning Algorithm – Applied ML and time-series analysis on historical/real-time data to forecast delays, delivering insights via dashboards and BI tools.

- Skills Gained - Visualization , Data science , Feature Engineering , Machine Learning, Database technologies , Python

Predicting Diabetes Progression Using Regression Analysis on Physiological Variables - This study aims to predict the progression of diabetes by applying linear and multi linear regression analysis to key physiological variables. identifies the most significant predictors influencing diabetic outcomes.

- Skills Gained - Visualization , Data science , Feature Engineering , Machine Learning, Database technologies , Python

Deep Learning Model for Animal Image Classification and Feature Recognition - Developed a 4-layer neural network to classify cat and non-cat images with 80% accuracy. RELU was used as an activation function for the hidden layers and Sigmoid function has been used as an activation layer for the output layer

- Skills Gained - Machine Learning, Algorithms , Data Science, Digital Image Processing , Computer Vision

SignSpeak: Deep Learning Model for Sign Language Prediction - Built a Sign Language Classification System using a Multi-Layer Perceptron implemented in TensorFlow. The model was trained on the SIGNS dataset to accurately recognize and classify hand gestures representing sign language symbols, achieving an accuracy of 72%. ReLU activation was applied to hidden layers for non-linear and a Softmax activation was used in the output layer to perform multi-class classification. Training utilized the Adam optimizer with mini-batch gradient descent for stable convergence

- Skills Gained - Sign language Data , Machine Learning, Algorithms, Digital Image Processing , Computer Vision

SKILLS

- Python, R , Java , C++
- Data Visualization and Analytical Skills - Matplotlib, Seaborn ,Plotly, Data Preparation and Data Cleaning
- Complex Predictive Models, Statistical Techniques , Sales Organization , Business metric - Agile , Automation , process Excellence , Software Design
- Analyzing Information , Data Mining , Matlab - Information systems , data Processing systems , predictive Modeling
- Machine Learning, Applied Math , Statistical Analysis.
- Data Science , Neural Networks , Deep Learning , NLP , Software Engineering and Testing - TensorFlow , Sci-kit learn NumPy, Pandas, NLP, PyTorch, Data Structure
- SQL , Data Warehousing , Big Data , Operating Systems
- Soft Skills - Flexible , Attention to detail , Commited , Communication , Leadership , Ethusiasm , Accountability and problem-solving skills, Innovative , organization skills , Collaboration , Critical Thinking , Confident

CERTIFICATES

Introduction to Python – Infosys   Introduction to CI/CD Jenkins Pipelines – Infosys