BOLEM NAGA MOHANA VAMSIDHAR

+91 91822 04314 | bolemvamsi@gmail.com | LinkedIn

Education

Master of Computer Applications Computer Science	GITAM Deemed to be University	6.7 GPA	Aug 2023 – May 2025
Bachelor of Computer Applications Computer Science	GITAM Deemed to be University	7.11 CGPA	May 2020 – May 2023

Software Skills

- **Programming & Scripting Languages:** Python, C, MySQL, PySpark, HTML, CSS.
- **Software & Tools:** Jupyter Notebook, Microsoft Office, Anaconda, Tableau.
- **Cloud Services:** AWS, Glue, Lambda, Elastic Map Reduce
- **Machine Learning Algorithms & Packages:** Linear Regression, Logistic Regression, Decision Trees, Classification, Random Forests, Naïve Bayes, CNN, NumPy, Pandas, Matplotlib, SciPy, Scikit Learn, Seaborn, TensorFlow
- **Middle Ware:** Dell Boomi
- **Other Tools:** ETL Services, Internet of Things, Data Warehousing, Distributed Deep Learning.

Projects

- **Health Monitoring System using IoT and Machine Learning (Internet of Things (IoT), Machine Learning (ML), Python, TensorFlow, Keras, Git, Web Development)**

  Objective: To develop a health monitoring system utilizing IoT sensors and machine learning algorithms to provide real-time health status monitoring for individuals, aiding in early detection of health issues and enabling timely intervention.

  - Utilized IoT sensors to collect real-time health data such as heart rate, temperature, and activity level from individuals.
  - Pre-processed the collected data using Python and Pandas library, handling missing values and outliers to ensure data quality.
  - Implemented a convolutional neural network (CNN) model using TensorFlow and Keras to analyze health data and predict potential health issues.
  - Constructed the CNN model architecture by defining layers, including convolutional layers, pooling layers, and fully connected layers.
  - Compiled the CNN model with appropriate optimizer, loss function, and evaluation metrics to optimize model performance.
  - Trained the CNN model using the collected health data, achieving a validation accuracy of 94% after 10 epochs.
  - Presented project findings and demonstrations to stakeholders, highlighting the system's effectiveness in early health issue detection and intervention.

- **Fraud Detection System using Machine Learning (Python, Scikit-learn, Pandas, NumPy, Git)**

  Objective: To develop a fraud detection system utilizing machine learning algorithms to identify fraudulent transactions and prevent financial losses.

  - Pre-processed transactional data using Python libraries such as Pandas and NumPy, handling missing values, and scaling features to ensure data quality.
  - Implemented machine learning models including Random Forest, Logistic Regression, and Gradient Boosting Classifier using Scikit learn to classify transactions as fraudulent or legitimate.
  - Tuned hyperparameters of machine learning models using techniques like Grid Search CV and Randomized Search CV to optimize model performance.
  - Evaluated model performance using metrics such as accuracy, precision, recall, and F1-score, achieving an average accuracy of 95% on test data.
  - Presented project findings and demonstrations to stakeholders, highlighting the system's effectiveness in detecting fraudulent transactions and mitigating financial risks.