Thota Venkat Mani Sankar Sai Gautam

Bachelor of Technology
Computer Science Engineering
Indian Institute of Information Technology Sricity

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Indian Institute of Information Technology Sricity	8.5[upto 4th sem]	2027
Senior Secondary	Tirumala Junior College	975/1000	May 2023
Secondary	Sri Gowthami Smart School	600/600	2021

Projects

- **SMS Spam Detection**
  Tools: Python, Scikit-learn, XGBoost, Pandas, Jupyter Notebook [GitHub]
  - Developed a machine learning-based system to classify SMS messages as spam or ham using the popular SMS Spam Collection dataset.
  - Implemented Naive Bayes and XGBoost classifiers after preprocessing and vectorizing the text data with CountVectorizer.
  - Created evaluation pipelines using accuracy score and achieved up to **98.3% accuracy** with the Naive Bayes model.
  - Applied model comparison to analyze the effectiveness of different classifiers for binary text classification.
- **Hate Speech Detection using NLP and Machine Learning**
  Tools: Python, Pandas, Scikit-learn, CountVectorizer, Logistic Regression, Naive Bayes [GitHub]
  - Designed a text classification pipeline to detect hate speech in tweets using supervised learning techniques
  - Integrated 'CountVectorizer' and 'TfidfVectorizer' for feature extraction, applying regex-based text preprocessing
  - Evaluated model performance using precision, recall, and F1-score, achieving over 86% accuracy with logistic regression
  - Compared Bernoulli Naive Bayes and Logistic Regression classifiers to select the best-performing model
- **Credit Card Fraud Detection using KMeans and AutoEncoder**
  Tools: Python, Scikit-learn, TensorFlow, Pandas, Jupyter Notebook [GitHub]
  - Built an unsupervised anomaly detection system using KMeans clustering and deep AutoEncoder neural networks
  - Scaled anonymized transaction data using `StandardScaler` and trained AutoEncoder only on normal class
  - Detected anomalies using reconstruction error threshold; achieved **60% recall** on fraud detection
  - Evaluated performance using confusion matrix, precision, recall, and F1-score

Skills

- **Programming Languages**: C, Java, Python, MySQl
- **Technologies**: HTML, CSS, JavaScript
- **Data Analysis**: Pandas, Numpy, Matplotlib
- **Machine Learning**: Scikit-learn
- **Tools PLatforms**: Git, Jupyter Notebook, VS Code
- **Soft Skills**: Problem-Solving, Team collaboration, Time management

Certifications

- **Corizo**, Artificial Intelligence
- **Coursera**, Supervised Machine Learning: Regression and Classification
- **Coursera**, Advanced Learning Algorithms
- **Coursera**, Unsupervised Learning, Recommenders, Reinforcement Learning