Arcot Yashwanth

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//github.com/yashwantharcot

Executive Summary

Enthusiasm for creating impactful web solutions is reflected through a solid foundation in front-end development and a strong grasp of advanced technologies. A keen interest in utilizing analytical skills to solve complex problems is evident from previous projects, particularly in leveraging NLP for efficient customer complaint handling. Commitment to continuous learning and improvement aligns with a mission to deliver exceptional user experiences and drive positive change in the digital landscape.

Education

N.B.K.R Institute of Science and Technology, Bachelor of Technology in Artificial Intelligence and Data Science — July 2021 – July 2025

- GPA: 7.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming, Software Development, Machine Learning, Deep Learning, Reinforcement Learning, Artificial Intelligence, Data Science.

Skills

- **Programming Languages:** Python, JavaScript
- **Web Development:** HTML, CSS, JavaScript, MySQL (Backend Integration)
- **Database Management:** SQL, MySQL, PostgreSql
- **Data Science & Machine Learning:** Pandas, Data Analysis, Web Scraping, Machine Learning Algorithms, Large Dataset Handling & Cleaning
- **API Usage:** Working with APIs in Python for content generation
- **Problem-Solving & Algorithms:** Data Structures, Algorithmic Thinking, Business Problem Solving

Projects

Automated Customer Complaint Classification using NLP — github.com/yashwantharcot

- Developed an NLP-based ticket classification system for a financial company to automate customer complaint categorization.
- Implemented topic modeling using NMF to classify unstructured text data into predefined categories.
- Trained supervised models (Logistic Regression, Decision Tree, Random Forest) for efficient complaint resolution.
- Applied advanced text preprocessing, feature extraction, and hyperparameter tuning to improve classification accuracy.
- Tools Used:
  - Text preprocessing and data cleaning tools
  - Data lemmatization and POS tagging
  - Exploratory data analysis (EDA) tools
  - Topic modeling with NMF
  - Machine learning models including logistic regression, decision tree, random forest, and multinomial naive bayes
  - Hyperparameter tuning with GridSearchCV

A Novel Hybrid Method for Detection of Online Harassment github.com/yashwantharcot

- Built an NLP-based system to classify tweets as offensive or non-offensive.
- Used **Decision Tree** & **Naïve Bayes** for classification.
- Applied **text preprocessing, sentiment analysis, and TF-IDF vectorization**.
- Evaluated model performance using **accuracy, precision, and recall**.
- Tools Used: **Languages & Libraries:** Python, NLTK, spaCy, Scikit-learn, Pandas, NumPy
  Machine Learning Models: Decision Tree, Naïve Bayes
  Feature Extraction: TF-IDF Vectorization
  NLP Techniques: Tokenization, Stemming, Sentiment Analysis
  Performance Metrics: Accuracy, Precision, Recall
  Data Handling: Train-Test Split (70-30)

Technologies

Languages: Python, SQL , Javascript

Technologies: NLTK, spaCy, Scikit-learn, Pandas, NumPy, TF-IDF, Topic Modeling (NMF, LDA), Sentiment Analysis, Decision Tree, Naïve Bayes, Logistic Regression, Random Forest, Hyperparameter Tuning, Train-Test Split (70-30), Flask, FastAPI, Streamlit.