OM CHAUDHARI

omchaudhari1107@gmail.com +91 7984 226245 in/om-chaudhari-38960721b github.com/omchaudhari1107

EDUCATION

Bachelor of Engineering, Information Technology
LDRP Institute of Technology & Research • Gandhinagar • 2025 • CPI: 8.53

EXPERIENCE

IT - Intern
ONGC (Oil and Natural Gas Corporation Limited) **May 2024 - June 2024,**

• Engineered a Laravel-based real-time issue reporting platform used by over 30,000 employees, accelerating incident reporting by 90% and enhancing overall workplace safety compliance.
• Enhanced IT Infrastructure: Gained insights into the workings of critical systems like SCADA (Supervisory Control and Data Acquisition), understanding its tier 1 and tier 2 architecture components. This knowledge is invaluable for maintaining and optimizing ONGC's digital infrastructure, potentially saving 1000+ of man-hours that manual monitoring and control would require.
• Network Expertise: Gained valuable communication and networking skills, including data transfer protocols, bandwidth management, backup strategies, and security protocols.
• Streamlined NOC & DPR Generation: Spearheaded the automation of NOC detail letter generation using Laravel. This eliminated manual data retrieval from four departments, significantly improving accuracy, compliance, and efficiency for thousands of employees. Additionally, optimized the Data Processing and Reporting (DPR) system to seamlessly handle millions of data points, merge data from 24 sites, ensuring smooth operations, enhanced productivity, and generating daily reports.

PROJECTS

GP-Scrap (Google Photos Scraping)
https://github.com/omchaudhari1107/Google-Photos-Scrap

• Uses Selenium with webdriver-manager to automate Google Photos scraping, leveraging Firefox profiles for seamless authentication and ensuring file integrity during downloads.
• Built with a Kivy app for an intuitive interface, the tool is live on gpscrap.online with cross-platform support for Windows and Linux.

YouTube Sage-Bot
https://github.com/omchaudhari1107/YouTube-QNA-Chatbot

• Developed an advanced NLP system for dynamic data extraction and question answering from YouTube video transcripts, utilizing Python libraries such as youtube_transcript_api.
• Implemented a hybrid model combining contextual understanding from video transcripts with the generative capabilities of GPT-2, enhancing responses from concise single-line answers to comprehensive elaborations.

Attendance System
https://github.com/omchaudhari1107/Attendance-System

• Created an efficient and user-friendly attendance system for students and faculty, simplifying the process of tracking and managing attendance.
• Integrated face recognition technology to verify student identities and prevent proxy attendance, ensuring only present students are marked.
• Developed the system using Django and implemented the Face++ API for face recognition, achieving 98% accuracy in verifying student details.

String Similarity using NLP
https://github.com/omchaudhari1107/String-Similarity-Using-NLP

• Preprocessed text by lemmatizing and transforming it into vectors using the CountVectorizer from Scikit-learn, leveraging both Spacy and Sklearn libraries.
• Calculated cosine similarity to measure the similarity between different texts based on their vector representations.

Sentiment Classifier (Movies Review Dataset)
https://github.com/omchaudhari1107/Review-Analysis

• This project utilizes Natural Language Processing (NLP) techniques to classify movie reviews by exploring clustering with K-Means to group similar reviews and applying supervised learning algorithms like KNN, SVM, and Naive Bayes for sentiment classification. The optimal number of clusters is determined using the elbow method.
• The results show the effectiveness of different classification algorithms, with SVM achieving an accuracy of 89%. Overall, the project illustrates the successful integration of NLP, clustering, and machine learning to categorize movie reviews into sentiment or genres.

Cat-Dog Classification
https://github.com/omchaudhari1107/Cat-Dog-Classification

• Used Haar Cascade classifiers to detect cat and dog faces from images, applying Wavelet Transformation for feature extraction and vertically stacking the original and transformed images to create a comprehensive feature set.
• Built a pipeline with StandardScaler and SVM for classification, achieving 97.02% accuracy in distinguishing between cat and dog faces using the combined features of original and wavelet-transformed images.

SKILLS

Programming: Python, C++, C, Java

Web Development: HTML, CSS, Bootstrap

App & Web Frameworks: Kivy, Django, Laravel

Databases: MongoDB, PostgreSQL

Machine Learning: Scikit-Learn, TensorFlow, NLP, keras, OpenCV

Data Science: Selenium, BeautifulSoup4, Scrapy, NumPy, Pandas

Tools: Linux, Git, GitHub, Docker, VS Code, Power BI, Jupiter Notebook

Other: Data Structure and Algorithms, OOPS

CERTIFICATIONS

Python for Data Science
NPTEL • Oct 2023

HackerRank
Python (Basic)