

VOLETI NAGENDRA KUMAR

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🔗 <https://github.com/kumar793> 🔗 <https://sites.google.com/view/kumarvoleti/home?authuser=0>

Education

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA 2019 – 2023
B.E KANCHIPURAM, India
ELECTRONICS AND COMMUNICATION ENGINEERING

Skills

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|------------|--------------------------------------|-------------------------------|-----------------------------------|
| • Python | • Flask | • Machine learning | • Data Analysis and Visualization |
| • Power Bi | • Deep learning | • Natural Language Processing | • GIT |
| • MYSQL | • Gen AI - prompt techniques and RAG | • Docker | |

Work Experience

Cognizant Jan 2023 – May 2023
INTERNSHIP Chennai, India

As a part of the internship, I have been trained in the industry practice of coding standards in Java as the primary language, SQL, PLSQL, Linux, Git, python and SDLC in Agile methodology.

I worked on a Spring MVC web application project during my internship.

Cognizant Sep 2023 – present
Programmer Analyst Chennai, India

As a dedicated and detail-oriented software engineer with 1 year of experience, I have successfully interfaced with clients to ensure high levels of quality assurance and customer satisfaction.

Certificates

AWS certified Cloud Practioner.

Projects

Centrica Dec 2023 – present

* Leveraged data analysis techniques to identify areas for improvement within the incident management process, resulting in a 20% reduction in workload.

* Implemented process enhancements based on data-driven insights to optimize support efficiency and effectiveness.

- * Ensured timely and accurate responses to incidents by utilizing data analysis to identify trends, root causes, and potential solutions.
- * Contributed to the overall improvement of incident management operations through data-driven decision-making and process optimization.

Document Q&A using Gen AI

2024

- Created a RAG application using Flask for the querying a document using Gemini model.
- Integrated RAG application with AstraDB Vector Database for embeddings.

Offline Speech Recognition [🔗](#)

Aug 2022 – 2023

- * Developed and deployed a offline speech-to-text and text-to-text translation solution using Python, Flask, and VOSK.
- * Achieved an impressive 85% accuracy rate for both speech-to-text and text-to-text translations, demonstrating the system's effectiveness in real-world scenarios.
- * Successfully integrated the solution with a user-friendly interface for end users using front-end.
- * Contributed to the open-source community by publishing the project on PyPI, making it accessible to other developers and fostering collaboration.

Automatic Attendance System [🔗](#)

Apr 2021 – Jun 2021

- * Implemented a robust deep learning model using Object-Oriented Programming (OOP) principles for efficient code organization and maintainability.
- * Created a well-structured MySQL database to store and manage attendance data, ensuring data integrity and accessibility.
- * Enhanced model performance through data augmentation techniques to improve generalization and reduce overfitting.
- * Built a user-friendly graphical interface using PySimpleGUI to facilitate easy interaction with the system.
- * Successfully deployed the application as an executable (.exe) file for convenient distribution and deployment.

Data analysis on Global terrorism

Jun 2021 – Jun 2021

In this project, the Global terrorism rate was identified using available data and found the countries most affected by terrorism and visualized that data using Matplotlib, seaborn and Plotly libraries in Python.