

+91-7007294971Gmail Github LinkedIn

## **EDUCATION**

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech.	Vellore Institute of Technology, Vellore	8.56 (Current)	2021-Present
Senior Secondary	Delhi Public School Kalyanpur-CBSE Board	93.2%	2021
Secondary	Delhi Public School Kalyanpur-CBSE Board	95.2%	2019

### **PROJECTS**

# Personalized Healthcare Recommendation using BioBERT and RAG

Dec 2024 - Apr 2025

Tools: Python, BioBERT, FAISS, PyTorch, Flask, HTML/CSS, Google Colab, Transformers

Github

- An end-to-end application that utilizes **Retrieval-Augmented Generation (RAG)** and **BioBERT** for delivering personalized healthcare recommendations.
- Integrated domain-specific biomedical knowledge using BioBERT to enhance the contextual understanding of user medical queries.
- Combined dense passage retrieval and generative answering to fetch relevant documents and generate human-like responses.
- Enabled dynamic retrieval from a curated corpus of medical literature to ensure accurate and updated healthcare insights.
- Built a user-friendly interface allowing individuals to input symptoms or health concerns and receive detailed, medically informed suggestions.
- · Hateful Meme Detection using Multimodal: A robust system to identify hateful memes Aug 2024 - Nov 2024 Tools: Python, TensorFlow, InceptionV3, BERT, Google Colab
  - Designed a multimodal classification system to combine textual and visual information for meme analysis.
  - Integrated InceptionV3 and BERT to extract complementary image and text features for better classification accuracy.
  - Implemented advanced data augmentation techniques for image pre-processing, improving the model's robustness to diverse meme formats and
  - Evaluated multimodal fusion techniques (Early, Late, Tensor Fusion) to identify the most effective method, achieving an accuracy improvement of
  - Collaborated with a research team to preprocess data from the **Facebook Hateful Meme Dataset** for training and validation.

#### QR Code Generator with Node.js

Oct 2023 - Dec 2023

Tools: Node.js, JavaScript, grcode library, inquirer, Express.js, HTML/CSS, VSCode, Git

Github

Github

- This project enables users to input URLs and generate and download qr codes with various customization options that can be easily scanned and put to use.
- Node.js: The project is built using **Node.js**, a powerful JavaScript runtime that allows for server-side scripting.
- NPM Libraries: **npm libraries** are used to handle QR code generation and customization. Some of the key libraries include **qrcode** for QR code generation and inquirer for user interaction.
- User Interface: The project includes a web-based interface. Users interact with the system to input URLs and customize QR code settings.
- QR Code Customization: The project leverages the capabilities of the **qrcode library** to allow users to adjust the QR code's appearance, including its size, colors, and error correction level.

## SKILLS

- **Programming**: JavaScript, Python, C/C++, Java, SQL
- Tools and Frameworks: Jupyter, Node.js, express.js, bootstrap, Power BI, Google Colab
- Areas of Interest: Algorithms, Competitive Programming, Data Structures, Full Stack Web Development, Machine Learning, Data Science

## CERTIFICATIONS

• Google Cloud Digital Leader, Certificate	2023
• AI ML Powered by Google Developers, Certificate	2023
• Power BI- Data Analytics Essential with Power BI, Certificate	
• Introduction to Generative AI, Certificate	2024