

PARTH SATISH DEDHIA

Mumbai, Maharashtra

B.Tech in Computer Science Engineering (AI and ML), Vellore Institute of Technology, Chennai

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Education

Vellore Institute of Technology (VIT) <i>B.Tech in Computer Science Engineering (AI and ML)</i> CGPA: 8.93/10	Chennai 2021 - 2025
Pace Junior Science College <i>12th Grade</i> Percentage: 89.83%	Mumbai 2019 - 2021
Sharon English High School <i>10th Grade</i> Percentage: 95.6%	Mumbai 2019

Experience

Finlatics <i>Business Analyst Intern</i>	Nov 2023 - Jan 2024 Mumbai
<ul style="list-style-type: none">Optimized datasets using SQL and Excel, leading to improved decision-making efficiency.Created Power BI dashboards that accelerated reporting processes.Conducted market research that informed and supported strategic business decisions.	

Projects

Potato Leaf Disease Detection <i>Tools: Python, Flask, ML, HTML, CSS, JavaScript</i>	<ul style="list-style-type: none">Developed a high-accuracy machine learning solution achieving 97% accuracy for detecting potato leaf diseases, significantly reducing diagnosis time for farmers.Trained the model on a dataset of 2252 images, applying image preprocessing techniques and hyperparameter tuning to enhance model precision.Created a Flask-based web interface for real-time disease diagnosis from uploaded images.
Smart Irrigation System <i>Tools: Arduino, IoT, ML</i>	<ul style="list-style-type: none">Engineered an IoT-based irrigation system to monitor soil moisture, temperature, and humidity, achieving 98% accuracy in water management efficiency through machine learning.Designed the system architecture to optimize water usage based on real-time environmental data.
Article Summary and Translator Tool <i>Tools: Python, Flask, HTML, CSS, JavaScript</i>	<ul style="list-style-type: none">Leveraged NLP techniques to generate concise article summaries, reducing text length by 74-94% using the <code>newspaper</code> library, enhancing content consumption efficiency.Created a Flask-based web application with an intuitive interface for real-time article retrieval and translation using GoogleTranslator.
RAG-based Document Buddy <i>Tools: Python, Streamlit, Hugging Face, Qdrant, BGE Embeddings, ChatOllama</i>	<ul style="list-style-type: none">Developed an RAG-based chatbot using Llama 3.2, BGE Embeddings, and Qdrant for efficient document interaction.Implemented PDF upload, embedding creation, and chatbot functionalities in a Streamlit interface.Utilized Hugging Face embeddings, ChatOllama, and Qdrant for vector storage and LLM-based query handling.

Technical Skills

Programming Languages: C++, Python, Java, SQL, HTML, CSS, AI/ML Frameworks: TensorFlow, PyTorch Concepts: Machine Learning, Object-Oriented Programming (OOP), Database Management Systems (DBMS), LLMs Interests: Mathematics, Data Science, Data Analytics	
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Certifications

AWS Cloud Practitioner	Score: 970/1000
Google Cloud Digital Leader	
Completion of C++, Python	IIT Bombay