

THANISHKA R

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Driven and curious, I thrive on learning and tackling new challenges with enthusiasm. Committed to growth, I bring a positive mindset and a results-driven approach to every opportunity. Passionate about innovation, I aim to contribute fresh ideas and make a meaningful impact wherever I go.

Education

Coimbatore Institute of Technology, MSc in Data Science

- CGPA: 8.35 (Up to 5th semester)

Bharathi Vidya Bhavan, Erode, HSC

- Percentage: 97.5%

Sacred Hearts, Yercaud, SSLC

- Percentage: 91.2%

Experience

Software Intern (Vista Engineering Solution)

- Gained hands-on experience in developing and managing software projects in a professional environment.
- Contributed to building scalable and efficient solutions while adhering to best practices.

Projects

AI-Powered Technical Interview Simulator 🔄

Technologies Used: Python, Streamlit, MongoDB, LangChain, Ollama, Regular Expressions

- Built an AI-powered technical interview simulator to automate candidate assessment using LLMs.
- Integrated MongoDB for storing candidate responses and Streamlit for an interactive UI.
- Enhanced hiring with intelligent question generation, personalized evaluations, and structured workflows.

Autism Prediction Model 🔄

Technologies Used: Scikit-learn, Random Forest, Decision Tree, Naïve Bayes

- Built a machine learning model to predict autism with **85% accuracy**.
- Compared performance of Random Forest, Decision Tree and Naïve Bayes where Random Forest is best.
- Used **Scikit-learn** for model training, evaluation, and hyperparameter tuning.

Summarizzzz: A Multi-Input Text Summarization System 🔄

Technologies Used: Vosk ASR, BART, WordNet, Flask, Bootstrap

- Developed a multi-modal text summarization system that extracts key insights from audio, video and images.
- Utilized **Vosk ASR** for speech-to-text transcription and **BART** for advanced summarization.
- Integrated **WordNet** to enhance linguistic understanding.
- Built an interactive Flask web app with a responsive Bootstrap interface.

VISTA Chatbot

Technologies Used: Python, React.js, MongoDB, LangChain, Ollama

- Built an AI chatbot for VISTA with LLM integration to handle company-specific queries.
- Developed a React frontend and Python backend using RAG for context-aware responses.

Skills

Python

MySQL, MongoDB

Flask, Scikit-learn

Power BI

Adaptability, Team Collaboration, Attention to Detail, Problem Solving, Decision-Making, Emotional Intelligence, Leadership

Area of Interest

- | | | |
|-------------------------------|------------------|----------------------------------|
| • Machine Learning | • Web Technology | • Data Structures and Algorithms |
| • Natural Language Processing | • DBMS | • Large Language Models |

Certifications and Extracurriculars

- Udemy: HTML, Python, and Flask Framework
- Codsoft: Virtual Internship Program in Python Programming
- Member of Women Empowerment Cell, CIT