

MANIKANDAN N

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GitHub | **Linkedin** | **LeetCode**

EDUCATION

MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI Artificial Intelligence and Data Science Bachelor of Technology <i>CGPA: 8.04(upto 5th sem)</i>	Sivakasi, Tamil Nadu, India 2022 - 2026
VINAYAKAR MATRICULATION HIGHER SECONDARY SCHOOL, SIVAKASI Tamil Nadu, India Degree in HSC <i>Percentage: 94.17%</i>	Sivakasi, 2021 - 2022
VINAYAKAR MATRICULATION HIGHER SECONDARY SCHOOL, SIVAKASI Tamil Nadu, India Degree in SSLC <i>Percentage: 82.8%</i>	Sivakasi, 2019 - 2020

SKILLS

Programming Languages:	Python, JAVA, C
Libraries/Frameworks:	Langchain, PyTorch, TensorFlow, Node, React
Tools / Platforms:	Docker, Git
Databases:	MySQL, Apache Cassandra, Neo4j, MongoDB

PROJECTS / OPEN-SOURCE

Query Gen Link A Streamlit application for generating SQL queries from natural language prompts and CSV file inputs, utilizing LangChain's SQL query generation and ChatGroq language model.	<i>Streamlit, SQL, LangChain, ChatGroq</i>
Comment Analyzer Link A neural network trained on labeled comments with a Tkinter GUI for predicting toxicity of input sentences, utilizing HDF5 format for model saving and loading.	<i>Neural Network, Tkinter, HDF5, Keras</i>
Detection of face-swap based deep fake videos Link A deep fake detection system using audio-visual analysis to identify face-swap deep fakes by detecting mismatches in lip movements, speech, and ambient sound inconsistencies.	<i>Deep Fake Detection, Audio-Visual Analysis</i>
RAG Model Link A Retrieval-Augmented Generation system using FAISS for vector search and Groq for LLM-based responses, including PDF data extraction and sentence embedding with SentenceTransformers.	<i>Retrieval-Augmented Generation, FAISS, Groq, SentenceTransformers, PDF Data Extraction</i>
TIC TAC TOE - MINIMAX Link This is a implementation of the classic Tic-Tac-Toe game in Python using the Tkinter library for the GUI. The computer player uses the Minimax algorithm to determine the best move.	<i>Python, Tkinter</i>

CERTIFICATIONS

- NPTEL - Responsible & Safe AI Systems
- NPTEL - Programming With Java
- INFOSYS SPRINGBOARD - Associate in IT Foundation Skills (JAVA)
- MICROSOFT CERTIFIED - AZURE AI Engineer Associate Certification