MEGANATH N

5/23,Veerapathi thottam,Kuppichipalayam,
Kesarimangalam(PO),Bhavani(TK), Erode(DT)-638 311

9385451050 | meganath727803@gmail.com

in linkedin.com/in/meganath-n-536b76274

Objective

I am committed to developing innovative and efficient solutions that propel progress and deliver value. I strive to apply my versatile technical skills in challenging environments to enhance productivity and drive sustainable growth. With a strong passion for continuous learning, I seek to contribute meaningfully to organizational goals while expanding my hands-on expertise.

Academic Qualifications

- **Dr.N.G.P. Institute of Technology,Coimbatore.**   2022-2026
  B Tech Artificial Intelligence and Data Science.
  Pursuing (CGPA-9.7 upto fifth semester)

- **Mangalam Higher Secondary School,Anthiyur.**   2018-2020
  HSC
  89.8%

- **St.Theresa's Matriculation School,Olagadam.**   2017-2018
  SSLC
  97%

Projects

- **Enhancing Cosmetology Outcomes through Quantum-Infused Machine Learning and Deep Learning Models**
  A quantum-enhanced simulation platform that predicts cosmetic surgery outcomes using machine learning, deep learning, and QGAN-based image processing.

- **Interactive Web-Based Periodic Table**
  This project is an interactive web-based periodic table that allows users to explore elements dynamically. Using HTML, CSS, and JavaScript, it offers real-time search and filtering, detailed element info, and customizable color-coding for enhanced learning.

- **Integrating Machine Learning Models for Rainfall Forecasting and Dam Water Management Optimization**
  This project integrates dam water management with rainfall forecasting using LSTM, SVR, XGBoost, and Random Forest. It predicts rainfall for ten days to optimize water discharge, benefiting agriculture and reducing flood risks.

- **Demystifying Stock Market Prediction with Machine Learning**
  Unlock the secrets of stock market prediction using machine learning techniques. Follow step-by-step guides to build predictive models with LSTM networks, harnessing the power of deep learning for accurate forecasts. Explore the role of stock markets in economic indicators and discover the challenges of predicting dynamic and

volatile prices. Gain practical insights into model training, data normalization, and performance evaluation for informed investment decisions.

- **Advancing Electric Mobility: Integrating TEG and IoT for EV Performance Monitoring**
  Integrating TEG and IoT, our project enhances electric vehicle (EV) performance monitoring. Utilizing TEG for waste heat conversion and IoT for real-time updates, we promote sustainable transportation by improving energy management and extending EV range.

Skills

- HTML,CSS, Javascript
- Java
- Python
- Data Structures and Algorithms
- React Development
- Quantum DL
- DevOps

Internships

- NIT Trichy | Tamil Nadu | July-August 2024
  - Explored the integration of Quantum Computing with Deep Learning for advanced problem-solving in AI.
  - Worked on implementing Quantum GANs (QGANs) and quantum-enhanced models using tools like Qiskit and TensorFlow.
  - Gained practical experience in quantum circuits, variational algorithms, and their application to real-world data challenges.
  - Collaborated with researchers to understand cutting-edge developments in Quantum Machine Learning (QML).

- Centillion Labs | Data Engineering Intern | Jan-Feb 2025
  - Developed scalable data pipelines using PySpark (RDDs, DataFrames) and optimized Spark SQL for efficient data processing with Databricks Delta tables.
  - Provisioned and managed AWS infrastructure using Terraform, including EC2, Redshift, IAM, and VPCs.
  - Designed and implemented a Generative AI Prompt Flow using AWS Bedrock, integrating MongoDB and a serverless API via AWS Lambda for real-time inference.

Achievements & Awards

- Attended Google Developer Group(GDG) Conference, Bangalore.
- SAP HACKFEST 2K23 Regional round@SSN college, Chennai, presented an idea titled Economic growth and job security.
- Got selected as Class Representative.
- Won 2nd place in Tamil Competition in Dr.N.G.P Arts and Science College, Coimbatore.
- Done Java Internship at CODSOFT during April 2024.
- Cracked NCAT examination and ranked 45.
- Participated in Smart India Hackathon in the year 2023.
- Got selected as top two teams in Quantum Hackathon conducted by NITTE,Bangalore
- Got selected as Department President during the academic year 2024-2025