

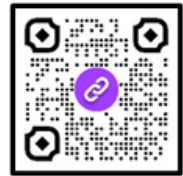
MAHESH R

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Portfolio: maheshr.netlify.app | **Github:** Mahesh20405 | **Pudukkottai, Tamilnadu, India**



OBJECTIVE

Skilled in AI model optimization, data analytics, and decentralized applications, with a focus on scalable and high-performance solutions. Seeking roles in AI/ML Engineering, Data Science, Software Development, and Blockchain Development.



PORTFOLIO

EDUCATION

KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY

Bachelor of Technology in Artificial Intelligence and Data Science

CGPA - 8.9

2022 – 2026

SUDHARSAN VIDHYA MANDIR MATRIC HSS, PUDUKKOTTAI

HSC

Percentage – 88.3%

2021 – 2022

SUDHARSAN VIDHYA MANDIR MATRIC HSS, PUDUKKOTTAI

SSLC

Percentage – 97.4%

2019 – 2020

INTERNSHIP

NETO AI (Present)

Intern

Chennai, Tamilnadu

Feb 2025 – Present

- Optimizing **LLMs** and **SLMs**, designing **Agentic AI frameworks**, and applying **Knowledge Distillation** for efficient and scalable AI.

PRAYA LABS

Junior AI/ML Researcher Intern

Thiruvannamalai, Tamilnadu

Jan 2025 – Feb 2025

- Conducted **in-depth research** and development of AI and ML models to address **domain-specific challenges**, with a focus on innovative solutions. Enhancing algorithm performance by **42%**.

VPRS SOLUTIONS

Frontend Web Developer Intern

Pudukkottai, Tamilnadu

Jun 2024 – Jul 2024

- Streamlined **development workflows**, increasing efficiency by **18%**, showcasing my ability to apply learned skills.

PROJECTS

QUIN-CHECK EVALUATION FRAMEWORK (Applied to HCR)

Jul 2024

- Designed the **Quin-Check Evaluation Technique**, a **five-stage deep learning framework** combining **line-curve decomposition** and **predictive scoring**, reducing **inference and insight generation time** by over **25%**. Successfully applied it to **handwriting character recognition** as a **real-time use case**.

MULTI-MODEL HEALTH DIAGNOSIS WITH MODEL DISTILLATION

Feb 2025

- Developed an **AI-driven diagnostic system** with **ResNet**, **DenseNet**, and **VGG**, improving **diagnostic accuracy** by **12%** through **model distillation**. Integrated **LIME** and **Grad-CAM**, enhancing interpretability and reducing misdiagnosis rates by **15%** in **X-ray-based detection of pneumonia, brain tumors, and tuberculosis**.

BLOCKCHAIN & IPFS-BASED MEDICAL MANAGEMENT SYSTEM

Mar 2025

- Built a **secure medical system** using **Blockchain**, and **IPFS**, ensuring **100% data integrity and tamper-proof storage**.
- Enabled **patients to manage records**, reducing data breaches by **30%**, and ensuring compliance with **India's DPDP Act 2023**.

CREWAI MCP Q/A ASSISTANT SDK (Agentic AI Integration)

Apr 2025

- Developed a **modular Q/A assistant** integrating **CrewAI, MCP, and Google A2A frameworks** with three deployment modes: **Basic MCP, A2A Enhanced, and Full Development**.
- Enabled **parallel agent processing, agent-to-agent messaging, and advanced error handling**, improving response reliability and performance by up to **40%**.

CERTIFICATIONS

- **DeepLearning.AI TensorFlow Developer Specialization** (2024)
- **Prompt Engineering Specialization from Vanderbilt University** (2024)
- **Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate** (2024 – 2026)
- **NPTEL Certifications**
 - **Compiler Design** (Jan–Apr 2025)
 - **Introduction to Database Systems** (Jan–Apr 2025)
 - **Ethical Hacking** (Jul–Oct 2024)
 - **Operating System Fundamentals** (Jul–Oct 2024)
 - **Introduction to Internet of Things** (Jan–Apr 2024)

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL

Frameworks: TensorFlow, Keras

Developer Tools: Git, IBM watsonx.ai, VS Code, ChatGPT, Jupyter Notebook, MongoDB Compass, Arduino IDE

ACHIEVEMENTS

- **Accepted Paper** – “Distilling Intelligence: Deploying Lightweight Neural Networks on ESP32 for Edge AI”, IEEE CVMI-2025, NIT Rourkela.
- **Winner (2nd Place)** at **NCRPAIDST' 2K25, National Conference on Rising Phenomenon of AI & DS Technologies**, Er. Perumal Manimekalai College of Engineering, Hosur.
- **Winner** in the **Software Category** of Biomedical Engineering Dept's **Schwan 2.0 24-hour Intra-College Hackathon**.
- **Winner** in **PC Building** with a **7.43-minute record** at **Coimbatore Institute of Technology (CIT), Coimbatore**.
- **2nd Place** in **Paper Presentation** at **SNS College of Technology, Coimbatore**.
- **2nd Place** in **Prompt Engineering** at **Kangayam Educational Institutions, Tirupur**.
- **3rd Place** in **Paper Presentation** at **Engineers Day, Sona College of Technology, Salem**.
- **3rd Place** in **36-hour HackFest Hackathon**, Erode Sengunthar Engineering College, Erode.
- **Shortlisted** and participated in **GENBRAINIACS25 Hackathon** under the **Zero Hunger** theme, organized by **Google Developer Groups OnCampus** at **PSNA College of Engineering and Technology**.

CO CURRICULAR ACTIVITIES

- **Active member** of **ISTE, KNCET**.
- **Google Developer Groups, NIT Tiruchirapalli Member**.
- **Participated and Secured top 10 place** in **MoonLight 2k23 Talkshop**.

HOBBIES

- **Boxing**
- **Weight Lifting**
- **Computer Hardware Diagnosis**

LANGUAGES KNOWN

Tamil
English
Japanese