MAHESH R

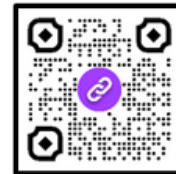**Contact:** +91 70106 10585 | **Email:** maheshsekaran724@gmail.com | **LinkedIn:** mahesh-r10 |
Portfolio: maheshr.netlify.app | **Github:** Mahesh20405 | **Pudukkottai, Tamilnadu, India**

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   **CGPA - 8.9**
Bachelor of Technology in Artificial Intelligence and Data Science   2022 – 2026

SUDHARSAN VIDHYA MANDIR MATRIC HSS, PUDUKKOTTAI   **Percentage – 88.3%**
HSC   2021 – 2022

SUDHARSAN VIDHYA MANDIR MATRIC HSS, PUDUKKOTTAI   **Percentage – 97.4%**
SSLC   2019 – 2020

INTERNSHIP

NETO AI (Present)   Chennai, Tamilnadu
Intern   Feb 2025 – Present
● Working on optimizing **Large Language Models (LLM)** and **Small Language Models (SLM)** for improved efficiency and scalability and Applying K**nowledge Distillation** techniques for effective knowledge transfer and streamlined model training to enhance AI performance.

PRAYA LABS   Thiruvannamalai, Tamilnadu
Junior AI/ML Researcher Intern   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   Pudukkottai, Tamilnadu
Frontend Web Developer Intern   Jun 2024 – Jul 2024
● Streamlined **development workflows**, increasing efficiency by **18%**, showcasing my ability to apply learned skills.

PROJECTS

HCR WITH CUSTOM DEEP LEARNING ALGORITHM   Jul 2024
● Developed the custom **"Quin-Check Evaluation Technique,"** a deep learning algorithm that achieved over 95% accuracy.

MODULAR DASHBOARD GENERATOR USING R   Jan 2025
● Designed a **user-friendly dashboard generator** using **R and Shiny Apps**, reducing **dashboard creation time by 50%**.

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**.

CERTIFICATIONS

● **DeepLearning.AI TensorFlow Developer Specialization** (2024)
● **Prompt Engineering Specialization from Vanderbilt University** (2024)
● **Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate** (2024 – 2026)
● **Google Project Management** (2025)
● **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: Python, Embedded C, Java, SQL
Frameworks: TensorFlow, Keras, Flask
Developer Tools: Git, IBM WatsonX, VS Code, ChatGPT, Jupyter Notebook, MongoDB Compass, Arduino IDE
Libraries: Scikit Learn, Pandas, NumPy, CV2, Matplotlib

ACHIEVEMENTS

● **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 **Kangeyam 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   LANGUAGES KNOWN

● Boxing   **Tamil**
● Weight Lifting   **English**
● Computer Hardware Diagnosis   **Japanese**