

# Hemanth Karthick

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## EDUCATION

R.M.K ENGINEERING COLLEGE  
B.E.(HONS.) IN COMPUTER SCIENCE  
📅 Oct 2021-Jun 2025 📍 Kavarapettai, TN  
CURRENTLY PURSUING

IIT, MADRAS  
BS IN DATA SCIENCE  
📅 Aug 2023 📍 Chennai, TN  
FOUNDATIONS - COMPLETED

VELAMMAL VIDHYASHRAM  
HSC - 83.4%  
SSC - 87.6%  
📅 Apr 2012-Jun 2021 📍 Surapet, TN  
COMPUTER SCIENCE

## LINKS

🔗 GitHub: /phoenix-mp3  
in LinkedIn: /hemanth-karthick  
</> Leetcode: /phoenix-mp3  
k Kaggle: /hemanthkarthick03

## SKILLS

PROGRAMMING:  
Python • C/C++ • JavaScript • R  
• HTML/CSS • SQL • Solidity • Java

MISCELLANEOUS:  
Watson • Anaconda • Tableau • MS  
Office • Git • PowerBI • Remix • React

## COURSEWORK

- Data Science
- Machine Learning
- Artificial Intelligence
- Software Engineering
- Database Management System
- Data Structures
- Smart Contracts
- Statistical Theory and Methods

## HONORS

FINALIST  
“IBM Hack Challenge 2023”  
📄 Media Monitoring and Multilabel  
Classification using IBM Watson

WINNERS - SOFTWARE  
“Glance-Village Hackathon”  
🚀 Satellite-Based Crop Monitoring  
and Crop Prediction

CONSOLATION PRIZE  
“Science & Innovation Club”  
🎧 Virtual Voice Assistant

## PROJECTS

### BONE FRACTURE DETECTION USING NEURAL NETWORKS

- 📅 Jun 2023 – Nov 2023 📍 Chennai, TN
- Through the use of the **ResNet50** network architecture, the project identifies fractures in bones by analyzing X-rays images.
  - Streamlined and expedited the diagnostic process by implementing advanced algorithms for x-ray image analysis, resulting in a 40% reduction in average diagnosis time.

### HEALTHCARE MANAGEMENT SYSTEM USING BLOCKCHAIN

- 📅 Oct 2022 – Jan 2023 📍 Chennai, TN
- HIPAA-compliant serverless app operates on Ethereum to find insights and descriptive-analytical reports.
  - Optimising Gas Amount in Transactions on Electronic Health Records.

### YOUTUBE DATA HARVESTING AND WAREHOUSING

- 📅 Aug 2023 – Oct 2023 📍 Chennai, TN
- User-friendly **Streamlit** application stores data in MongoDB database.
  - Utilizes the Google API to extract information from a YouTube channel.
  - Enables users to search for channel details and join tables to view data in the Streamlit app.

### VIRTUAL VOICE ASSISTANT

- 📅 Jan 2022 – June 2022 📍 Chennai, TN
- Integrated the voice assistant with the APIs, screen brightness control, and volume control using hand gestures by **OpenCV**.

## CERTIFICATIONS

### IBM DATA SCIENCE

- COURSERA, IBM, PROFESSIONAL CERTIFICATE  
📅 May 2023 – Dec 2023 📍 Chennai, TN
- To solve practical data science issues and find insights.
  - Leveraged essential tools to enhance programming skills and data analysis proficiency.

### GOOGLE DATA ANALYTICS

- COURSERA, GOOGLE, PROFESSIONAL CERTIFICATE  
📅 June 2022 – Sept 2022 📍 Chennai, TN
- Understand how to clean and organize data for analysis.
  - Complete analysis and calculations using spreadsheets, SQL, and R programming.

### BLOCKCHAIN AND CRYPTOCURRENCY EXPLAINED

- COURSERA, UNIVERSITY OF MICHIGAN  
📅 May 2022 – Sept 2022 📍 Chennai, TN
- The strengths and weaknesses of cryptocurrency as an asset and a payment mechanism.
  - How blockchain works and is decentralised.

## EXPERIENCE

### DATA SCIENCE INTERN

- LETSGROWMORE  
📅 July 2023 – July 2023 📍 Chennai, TN
- Developed predictive models, conducted data analysis, and applied machine learning techniques to solve practical problems in data science.