JAGAN **KARTHICK**

DOB - 11th April, 2007

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EDUCATION

SRM Institute of Science and Technology

B.Tech in ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Grad. May 2028 | Current CGPA: 8.77 / 10.0

VIDHYASAGAR INTERNATIONAL PUBLIC SCHOOL

Computer Science Top Scorer

Grad. May 2024 | Cum Per: 88.4%

LINKS

Github://**JAGAN-KARTHICK-A**
Leetcode://**A_JaganKarthick**
(170+ problems)

SKILLS

PROGRAMMING

Languages:

- Advance: C++, Python
- Intermediate: C, JavaScript

Tools:

- Git, Linux, Windows

Framework & Library:

- PyTorch, Django, Flask, React JS

Technologies:

- CSS, HTML, SQL, NoSQL

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Object Oriented Programming
Machine Learning
Web Development
DBMS
Mathematics-I,II

Data Structures and Algorithms (DSA) Course

In-depth understanding of data structures, algorithms, and complexity analysis.
Hands-on problem-solving with topics like dynamic programming, graphs, and trees.
Optimization techniques for coding interviews and competitive programming.

PROFESSIONAL EXPERIENCE

Python Developer Intern

Infosys Internship 5.0 | Nov 2024 - Jan 2025

- Developed a **bulk email automation** system using Python, Streamlit, and SMTP, enabling efficient mass communication with a **user-friendly interface**.
- Integrated **Google OAuth2** for **secure authentication**, ensuring safe access to email accounts.
- Improved **system reliability** and security by setting up **error handling** and monitoring mechanisms.
- Enhanced overall performance by **optimizing email dispatch speed** and **reducing delivery failures**, improving campaign effectiveness.

Full Stack Developer Intern

SRM Institute of Science and Technology | Jan 2025 - Current

- Developed an **interactive** club **dashboard website** using ReactJS for the front-end, ExpressJS for the back-end, and MySQL for **database management**.
- Utilized MySQL to store and **manage user data**, event information, and club **performance metrics**, **optimizing data retrieval and integrity**.
- Focused on **performance optimization**, **reducing load times** and improving **system responsiveness** across devices.

ACM Webmaster

SRM Institute of Science and Technology | Feb 2025 - Current

- Currently serving as the **ACM Webmaster** at SRM IST, overseeing the **development** and **maintenance** of the ACM Student Chapter's **digital platforms**.
- Implementing dynamic **event management** features, allowing **real-time updates** on upcoming workshops, hackathons, and seminars.
- **Optimizing website performance**, **reducing load times** and **enhancing user experience** across various devices.
- Collaborating with the ACM team to integrate **interactive features**, improving member engagement and **information accessibility**.

PROJECTS

AI-Powered Diabetes Classifier

DEEP LEARNING | NEURAL NETWORKS | PyTorch | PYTHON

- Designed and implemented an advanced **deep learning model** using **PyTorch** to accurately detect diabetes, achieving a **precision rate** of **100%** and **accuracy** of **97.2%**, enhancing the accuracy of diagnostic predictions.
- Plotted a detailed **Confusion Matrix** to visualize model performance, providing **clear insights** into true positives, true negatives, false positives, and false negatives.

INTERESTS

TECHNICAL

Robotics, Block Chain, Full Stack, Machine Learning, Internet of Things

NON-TECHNICAL

motorcycle riding, Trekking, Cricket, Silambam(District 1st)

AWARD:

2nd place in TechSpectrum'24

AI-Driven Cardiovascular Risk Prediction with Web Interface

DEEP LEARNING | NEURAL NETWORKS | PyTorch | PYTHON

- Developed a **heart disease detection model** with a Flask **web interface**, allowing users to input data and view real-time predictions, complemented by a **Confusion Matrix** for model **performance visualization**.
- Incorporated the **Confusion Matrix** to enhance **interpretability**, helping to identify areas for improvement in model predictions and refine its **diagnostic capabilities**.