

# KAMALAKANNAN A

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Aspiring software engineer with a strong foundation in computer science, machine learning, and full-stack development. Passionate about solving real-world problems through code and eager to contribute to impactful projects in a growth-oriented organization.

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## EDUCATION

### Bachelor of Artificial Intelligence and Data Science | Sri Venkateshwara College of Engineering

- Distinguished member of university's Technical Clubs, CGPA: 8.2
- Relevant coursework: Advanced Financial Accounting and Reporting

### HSE,SSLC | Sethu Bhaskara Matriculation Higher Secondary School

- HSE Degree obtained May 2022 with Percentage: 92.6
  - SSLC Degree obtained March 2020 with Percentage: 79
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## INTERSHIPS

### Combat Vehicles Research & Development Establishment (CVRDE) | 2ND JULY 2024 – 14TH AUGUST 2024

#### Machine Learning

- Enthusiastic Machine Learning Intern with hands-on experience in data analysis, statistical modeling, and machine learning algorithms.
- Developed a convolutional neural network (CNN) to classify car images into 196 categories with high accuracy.
- Optimized the model using transfer learning and hyperparameter tuning, achieving [92% accuracy].

### Bharat Intern | 7TH JUNE 2024 – 7TH JULY 2024

#### Web Development

- Portfolio Website: Designed and developed a personal portfolio website using HTML, CSS, and JavaScript, showcasing a range of professional projects and skills.
  - Netflix clone: Designed the home page of Netflix displaying the movies using API calls to generate random movies and styled in CSS.
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## TECHNICAL SKILLS

- Programming Languages – Core Java, Python, JavaScript, CSS, HTML
- Concepts – Data structures, DBMS, Networking, OOPs
- Databases – SQL, MongoDB
- Soft Skills – Project management, Leadership, Critical Thinking, Effective Communication.

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## TECHNOLOGY AND FRAMEWORKS

- Python – TensorFlow, NumPy, Pandas, PyTorch, Scikit-learn.
  - Web Development – ReactJS, NodeJS, ExpressJS.
  - App Development – Android Studio.
  - Data Analytics – Power BI, MS Excel.
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## PROJECTS

### Machine Learning

#### Real-Time Hand Tracking using Media Pipe and OpenCV

- Built a Python application that detects and tracks hands in real time using webcam input.
- Used Media Pipe to identify 21 hand landmarks and draw them on the video stream.
- Displayed the position of key points like fingertips and calculated FPS.

#### Cat vs Dog Image Classification using Deep Learning

- Developed a CNN model to classify images as either a cat or a dog.
- Used labelled image datasets for training and validation.
- Achieved high accuracy using convolutional layers and image augmentation techniques.

### Web Development

#### Portfolio Website

- Designed and deployed a responsive personal portfolio showcasing skills and projects.

#### Weather Application

- Utilized HTML, CSS, and JavaScript to create an interactive user interface.
  - Integrated with a weather API to fetch and display current weather data for user-specified locations.
  - Designed to provide real-time weather updates, enhancing user engagement and experience.
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## CERTIFICATIONS

- Python (Basics), SQL (Basics) – **Hacker Rank**
- Frontend Coding Championship - Season 2, GIT, JavaScript – **GUVI**
- Introduction to Machine Learning, Pattern Recognition and Application – **NPTEL**
- Introduction to Data Science, Deep Learning for Developers, Python clean coding – **Infosys**