JANARTHANAN P

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[github.com/janarthanan14](https://github.com/janarthanan14) Puducherry, India.

**Executive Summary**

MCA graduate with hands-on experience in Python, Java, and SQL, skilled in building full-stack and AI-based projects. Strong in problem-solving and ready to contribute as a software developer. Open to relocation and immediate joining.

**Education**

**Puducherry Technological University** Dec 2023 – May 2025

Master of Computer Applications (**MCA**) – CGPA – 8.1

**Pondicherry** **University Community College** Dec 2020 – May 2023

Bachelor of Computer Applications (**BCA**) – CGPA – 7.2

**Jawahar Navodaya Vidyalaya**

Higher Secondary Certificate (**HSC**) – 81% Jul 2019 – May 2020

Secondary School Leaving Certificate (**SSLC**) – 54% Jul 2017 – May 2018

**Skills**

**Artificial Intelligence & Machine Learning:** Machine Learning (Supervised & Unsupervised), Deep Learning, Generative AI, LLMs, Transformers, NLP, Prompt Engineering, Model Building, Model Training & Evaluation, Model Deployment, Model Fine-Tuning, Responsible AI. **Data Science & Analytics:** Data Analysis, Data Analytics, Data Science, Data Visualization, Data Preprocessing, Data Cleaning, Data Validation, Data Modeling, Data Pipelines, Business Intelligence, Predictive Modeling, Anomaly Detection, User Behavior Analysis, Statistical Analysis, Data-Driven Decision Making, Reporting. **Software Engineering & Development:** Software Development Life Cycle (SDLC), Full Stack Development, Backend & Frontend Development, Mobile App Development, Web Application Development, Modularization, OOPs, DSA, Agile Development, Debugging, Integration, Automation, CI/CD, DevOps, Microservices, Distributed Systems, Embedded Systems. **Cloud & Infrastructure:** Cloud Computing, Cloud Architectures, Cloud Developer, Infrastructure Monitoring, Cloud Deployment, Cognitive Services, Data Streaming, Databricks. **UI/UX Design & Development:** UI/UX Design, Prototyping, Minimalist Interfaces, Visual Systems, Emotional Design, Mobile App Design, Web Design, Usability & Interactivity, Cross-Browser Compatibility, Accessibility. **Quality Assurance & Testing:** Quality Assurance, Manual Testing, Unit Testing, Functional & Non-Functional Testing, Test Planning & Strategies, Regression Testing, Integration Testing, Performance Testing, Automation Testing, Defect Tracking, Bug Reporting, Verification & Validation. **Data Management & Governance:** Data Governance, Data Lifecycle, Data Quality, Risk & Compliance, Digital Risk, Data Security, Data Protection, Data Annotation, Data Curation. **Technical Documentation & Communication:** Quality Documentation, Report Writing & Presentation, Strategic Planning, Root Cause Analysis, Stakeholder Management, Regulatory & Compliance Awareness, Knowledge Base Creation

**Technical Skills:**

* **Programming Languages:** Python, Java, SQL, HTML, CSS, JavaScript, jQuery  
  **Familiar with:** C, C++, C#, VB.Net, Kotlin, Flutter, PHP, DHTML
* **Frameworks & Libraries:** scikit-learn, pandas, NumPy, TensorFlow, PyTorch, Matplotlib, Seaborn, Spring, Hibernate, Flask, Django, Redux
* **Databases:** MySQL, SQLite, PostgreSQL, Firebase Firestore, MongoDB, NoSQL
* **Tools & Platforms:** Git, GitHub, Visual Studio Code, Jupyter Notebooks, Android Studio, Google NotebookLM, AI Studio, Databricks, IIS
* **Testing Tools:** Unit Testing Tools, Manual Testing Tools, Test Case Management, Automation Frameworks
* **Cloud Platforms:** AWS, Azure
* **Office & Productivity Tools:** MS Word, Excel, PowerPoint, Google Sheets, Spreadsheets

**Soft Skills & Other Competencies**

Problem Solving & Critical Thinking, Fast Learner & Adaptability, Team Collaboration & Leadership, Time Management & Prioritization, Effective Communication (Written & Verbal), Project Management & Coordination, Analytical Thinking & Attention to Detail, Regulatory & Compliance Awareness, Stakeholder Engagement, Initiative & Accountability, Risk Assessment

**AI Tools**

ChatGPT, Perplexity, Claude, Gemini, Google NotebookLM, Grok AI, Midjourney, AI Studio

**Projects**

[**Geo-Fencing Based Attendance Management System**](https://github.com/janarthanan14/Geo-Fencing-Based-Attendance-Management-System.git)

A location-aware attendance app that allows students to mark attendance only within a geo-fenced classroom zone. Includes full access control for admins, HODs, staff, and students.

* Role-based login system
* Geo-fencing based student attendance ensuring attendance mark is possible only at specific locations
* Admin, HOD, staff and student dashboards

**Tech Stack:** Python (Flet, FastAPI), Firebase

[**Helmet Detection System Using Vision Transformer**](https://github.com/janarthanan14/Helmet-Detection/tree/main/Proposed%20System/Helmet_Detection_Vision_Transformer)

An object detection system using Vision Transformer (ViT) to improve helmet detection accuracy over YOLOv8. Useful for traffic monitoring and safety enforcement.

* Transformer-based helmet detection
* Custom model training with extended dataset

**Tech Stack:** Python

**Hospital Management System Database**

A DBMS-based project to manage hospital workflows, including appointments, inventory, and role-specific operations for doctors, patients, pharmacists, and admins.

* Role-based registration/login
* Doctor appointment booking with time-slot conflict checks
* Inventory management for pharmacists
* Admin dashboard

**Tech Stack:** HTML, CSS, JavaScript, PHP, SQL

[**Certifications**](https://drive.google.com/drive/folders/16YSgBLYZ2gtdcquIIEpx8D1XTNQdahTy)

**Udemy**

* Data Science and Machine Learning
* Midjourney (AI Art Generator)
* Google NotebookLM
* Google Slides
* Microsoft Excel
* Microsoft PowerPoint
* Git and GitHub
* Internet of Things (IoT)

**Mindluster**

* Google Project Management

**Extra-Curricular Activities**

**NCC**

* I’m a A, B & C Certificate holder.
* I participated in the National Trucking camp in Kulamavu, Idukki, Kerala, India.
* I have hands-on experience with firearms. (.22 Rifle and 12 Gauge Shotgun).
* I have hands-on experience in flying (Zen Air CH 701 STOL).