JANARTHANAN P

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Executive Summary

Recent MCA graduate with strong programming skills in Java, Python, and JavaScript, eager to begin my career as an Associate Software Engineer at Anthology. Skilled in frontend development with Angular/TypeScript and backend development with databases and cloud technologies, with a keen interest in building scalable, accessible, and ethical digital solutions. Passionate about contributing to products that empower education, adaptable to distributed teams, and committed to continuous learning and collaboration.

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

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

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

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).