

# Anand Rajendran

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Automotive Embedded Systems (12+ Yrs) ●●●●○  
Automotive Verification & Validation (7+ Yrs) ●●●●○  
Automotive Embedded Software Development (6+ Yrs) ●●●●○  
Project / Product Management (4+ Yrs) ●●●●○  
Full-Stack Development (2+ Yrs) ●●●●○  
AI Engineering (1+ Yrs) ●●○○○

## About Me

- AI & Full-Stack Engineer with 13+ years of prior experience in Software Engineering spanning embedded software development, verification & validation and technical project management in Automotive Domain.
- Strong background in Embedded C, CAPL, C++/C#, Python, Java & cloud-native development, with proven record of leadership in scaling teams 3-4x and delivering large-scale automotive projects.
- Upskilled recently through a full-time Post Graduate Diploma in Artificial Intelligence (CDAC Noida, 2024) with hands-on projects in Deep Learning, NLP, Speech Recognition, and AWS/GCP based Full-Stack Web Deployment.
- Pivoted recently to AI/ML-driven product development and scalable full-stack application development along with freelance consulting for Automotive Project Management & Agile Transformation.
- Passionate about bridging embedded intelligence and cloud-based AI systems for next-gen automotive and industrial applications.
- Seeking full-time / part-time / consulting / contract / freelancing / training / startup (open to equity based initial compensation) opportunities in AI-driven product engineering, Full-Stack Development or Intelligent Automotive systems.

## Key Skills

- Full-Stack Development** Cloud AWS (EC2) GCP (CloudRun, Pub/Sub, Firestore) DevOps Docker Git Jenkins  
Languages / Frameworks Python Java Node.js Flask Spring HTML/CSS JavaScript Jinja JSON Database SQL / MySQL
- AI / ML** Machine Learning Scikit-learn Deep Learning Tensorflow PyTorch Keras Computer Vision YOLO  
NLP SpaCy NLTK Data / Analytics Pandas NumPy Matplotlib Seaborn PySpark Audio Speech Recognition
- Embedded** Languages Embedded C Linux System Programming (POSIX Services) Test Automation CAPL VB.NET / C#.NET  
Frameworks / Protocols CAN UDS SOME-IP DoIP AUTOSAR Tools Vector CANoe Danlaw Micromax GAIO winAMS
- Leadership** Project Management Initiation Planning Execution Monitoring & Control Closure Technical Project Management  
Team Management & Scaling Risk Management Vendor & Stakeholder Engagement  
Agile ART Collaboration Backlog Management Iteration Planning & Execution Continuous Improvement Quality Metrics Compliance

## Professional Experience

- 01.12.2024 ~ till date Freelancer *Automotive Project Management & Agile Transformation Consultant* | Chennai, TN
- 29.08.2022 ~ 17.10.2023 Stellantis (FCA IT) *Manager [ Technical Specialist ]* | Bangalore, KA
- 12.07.2021 ~ 06.07.2022 Harman Connected Services *Solutions Architect* | Bangalore, KA
- 28.08.2020 ~ 09.07.2021 Datamatics Global Services *Manager [ Deputed as Sr. Consultant @ Harman ]* | Bangalore, KA
- 09.05.2016 ~ 26.07.2019 FCA Engineering *Deputy Manager [ Project Chief ]* | Chennai, TN
- 07.04.2013 ~ 29.04.2016 L&T Technology Services *Project Leader / Sr. Software Engineer* | Chennai, TN
- 17.11.2008 ~ 16.04.2013 Infosys *Systems Engineer / Sr. Systems Engineer* | Chennai, TN

## Key Projects

- AI/ML – Automatic Speech Recognition (ASR) | CDAC Capstone Project**
  - Built Deep Learning based Speech-to-Text app using Keras/TensorFlow. Trained on noisy/noiseless Indian & international accent datasets.
  - Deployed as a web application on AWS with Flask, Docker, Jenkins. [GitHub](https://github.com/zollyzeus/ASR-Deployment): <https://github.com/zollyzeus/ASR-Deployment>
- Embedded Software Development, Verification & Validation Projects**
  - Base SW Platform Verification @ FCA-IT : Client(self) - OEM Stellantis* *Role : Manager*
    - Classic AUTOSAR BSW & DoIP - Verification & Test Automation for MY26 - ADAS(Auto-Drive), BCM & Zonal Controllers (Brain Arch)
    - Led 35+ member team; improved automation with Python, CAPL & XML.
  - Instrument Cluster Validation @ Harman : Client(OEM) - Audi, Germany* *Role : Test Automation SME*
    - Worked on Adaptive AUTOSAR based Instrument Cluster for Functional, Middleware & DoIP - Component Validation & Test Automation
    - Built automation frameworks using CAPL, Python, XML & C# for regression testing.
  - Instrument Cluster Verification & Validation @ FCA Engg : Client(self) - OEM Stellantis (erstwhile FCA group)* *Role : Deputy Manager*
    - Worked on Functional (HMI application) & diagnostics - SIL, Component Validation & Test Automation for NAFTA / EU market vehicles
    - Built & Led Component Validation Team of 10+ members supporting 5 vehicle programs; enhanced automation test coverage.
  - Instrument Cluster & ADAS Development @ LTTS : Client(Tier-1) - Calsonic Kansei(CK), Japan* *Role : Team Leader*
    - Worked on development of TFT Instrument Cluster, HUD, and Side View Camera systems.
    - Worked on porting Device-Drivers, HMI integration, Middleware & application software development using C / Linux system programming.
  - ECM Software Development @ Infosys : Client(OEM) - Caterpillar Inc, USA* *Role : Team Member*
    - Developed Electronic Control Module (ECM) software for off-highway vehicles (CAN, J1939, CDL, diagnostics).
    - Worked on porting/testing middleware(CDL, J1939, NVM, Clock), diagnostics and hardware abstraction layer software for CAN modules.

## Education

- 2024 | 77.7% | P.G. Diploma ~ *Artificial Intelligence* | Centre for Development of Advanced Computing (CDAC) | Noida, UP
- 2008 | 80.4% | M.E. ~ *Embedded System Technologies* | Veltech Engineering College (affiliated to Anna University) | Chennai, TN
- 2006 | 78.8% | B.E. ~ *Electrical & Electronics Engineering* | Jerusalem College of Engg (affiliated to Anna University) | Chennai, TN
- 2002 | 91.9% | 12<sup>th</sup> (Intermediate) | Vidhyasadhana Junior College (Board of Intermediate Education, Andhra Pradesh) | Kadapa, AP
- 2000 | 80.2% | 10<sup>th</sup> (Secondary) | Shanthiniketan High School (Board of Secondary Education, Andhra Pradesh) | Kadapa, AP

## Achievements

- Ramp-up Leadership:** Scaled Stellantis team 4x in FY22-23; FCA Engg team 3x in FY18-19.
- Awards:** Excellence Award (FCA Engg), Valuable Performer (L&T TS), Spot & Extra-Miler Awards (Infosys).