**JAGADEESH MANEPALLI**

**Role**: Senior Embedded Engineer with Data Engineer

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**LinkedIn Profile**: https://www.linkedin.com/in/manepalli-jagadeesh-06082299/ **CAREER OBJECTIVE**

Aspiring for career enriching assignments in growth-oriented Embedded Engineer with Data Engineering and product development organizations where my skills in Data Engineer and in Embedded Engineer can be utilized.

**SUMMARY OF EXPERIENCE**

Experience of 5.8 years in Data Engineering and Embedded Testing in Automotive domain which

include:

● Developing KPI measurement scripts for perception sensor AI algorithms using pyspark and deploy in clusters.

● Developing simulation to generate synthesis data for AI algorithms testing.

● Automating scripts to deploy in jenkins.

● Have very good knowledge on spark SQL and dataframes(data analytic framework).

● Pre-processing and Visualizing the vehicle ROS bag data using ROS utilities.

● Interaction with business requirements, analysis, design, development, testing, deployment and production support.

● Involved in all phases of Software Development Life Cycle using AGILE methodology.

● Resolves complex issues within my own area of expertise and supports others in resolving issues. ● Good interpersonal communication skills with the ability to communicate effectively with all levels of the development process.

**TECHNICAL EXPERTISE**



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| --- | --- |
| Programming Language | Python, CAPL Scripting, SQL, C |
| Technologies | ROS, APACHE SPARK(PySpark), Django, CARLA Simulator,  MongoDB, OpenCV (Basic), Unreal Engine, Tensorflow |
| Configuration  Management Tools | MKS, SVN, GIT, Bit Bucket |
| Requirement & Test  Management Tools | DOORS, RQM |
| Testing & Automation Tools | CANoe, vTestStudio |

**EDUCATION**

Bachelor of Electrical and Electronic Engineering, VIET College, April 2015

**CERTIFICATIONS**

● **PG Diploma** in Embedded System Design from CDAC in Bangalore

● **Machine Learning**:

https://www.coursera.org/account/accomplishments/certificate/4BYHPXQF2XY6

● **Deep Learning** (5 courses):

https://www.coursera.org/account/accomplishments/specialization/certificate/GUSP6W2ZX4CY ● ISQTB **Foundation Level**

**PROFESSIONAL EXPERIENCE**



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| **Company** | **Position** | **Period** | **Projects & Responsibilities** |
| **Global Logic- work with Adobe** | **Associate Consultant** | Aug 2021 -  Till date | **Product:** Migrating existing oracle web server to Django webserver of adobe data centres.  Responsibilities:   1. Implement admin pages for existing databases. 2. Deploy web application in EC2 instance.   **Technologies:**  Python, Django, Postgresql |
| **ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTION**  **LIMITED(RBEI) Mar-2016 - Jul-2021** | **Senior Engineer** | Nov 2017 - July 2021 | **Product:** Autonomous Car for urban mobility service is an autonomous L4/L5 vehicle for mobility service management to the urban cities. It uses a surround view camera, front camera,  lidar, radar, ultrasonic sensors for perception of the car environment to construct the 3D map in order to maneuver the car automatically.  **Responsibilities:**   1. Implement KPIs of deep learning models predicted data using pyspark and deploy in hadoop clusters with YARN resource management. 2. Using Simulators such as CARLA, create scenarios to generate synthesis data and to create scenarios for deep learning models testing. 3. AI Validation using LIME. 4. Evaluate algorithms of camera and radar data by calculating KPIs such as Confusion matrix, ROC, Precision, Recall, 1-Score, etc...   **Technologies Used:**  Apache Spark, Robotic Operating System(ROS), CARLA Simulator, Python, Linux OS, MongoDB,Tensorflow.  **Product:** ADAS (SVC, SRVC, Stereo vision camera)  NRCS is a driver parking assistance system. It’s a multiple camera system which helps drivers in maneuvering cars during parking. It consists of four cameras used to provide a complete 360 Deg view around the car and with the help of USSR sensors in the front and in the rear car, obstacles are detected and it cautions the driver about the obstacles with help of overlays. The overlays are displayed with different colours indicating the position of the obstacle. Vehicle steering angle position is simulated by displaying dynamic trajectories and it is assisted by providing different modes like bird eye view, auto camera, fixed camera to view different corners around the car.  **Responsibilities:**   1. Analysing the customer requirements and writing the test cases based on the requirements for the C2W, CAMCTRL, NAS functionalities, 2. Design and Verification Testing, Cyber Security. 3. 3. Implementing and interfacing required simulated ECU in the Rest Bus Simulation. 4. Testing the software and reporting bugs using JIRA. 5. Worked on Ethernet over SOME/ IP. 6. Analyzing vehicle data for any deviation from the requirements using Python. 7. DoIP with Ethernet, UDS and Security testing.   **Technologies & Tools Used:**  ● CANoe with XCP, DLT viewer, E-sys,  ADTF, Trace Check, vTestStudio. |
|  | **Engineer** | Mar 2016 - Oct 2017 |