**Santhosh RB**

**PROFILE**

Perseverant and proficient individual with exceptional motivation and morale, aspiring for an exciting career in the Automotive industry.

**EDUCATION**

* **M.Tech** **Automotive Engineering**

**CGPA – 7.51 / 10 2021-2023**

Amrita Vishwa Vidyapeetham

* **B.Tech** **Computer Science and Engineering**

**CGPA – 6.67 / 10 2016-2021**

K. Ramakrishnan college of Technology

* **Class 12** – 65% **2016**

Institution: SKV Matriculation Higher Secondary School

* **Class 10** – 85% **2014**

Institution: SKV Matriculation Higher Secondary School

**TECHNICAL INTERESTS**

Vehicle Dynamics

Brake System, NVH

Vehicle Simulation and Analysis

**PROJECTS**

**Prediction of Lubricant Oil Conditions using Machine Learning Approach**

This study is to analyze the vibration and acoustic emission (AE) characteristics of an internal combustion engine with clean and contaminated lubrication oil. The vibration and acoustic emission data are acquired using the accelerometer and AE sensor respectively for good and contaminated lubricants. Machine learning (ML) techniques are used to predict the condition of the lubrication oil.

**CFD Analysis of Process Parameters in Shell and Helical Coil Heat Exchanger and Comparison with Experimental Values**

The purpose of this project is to compare parameters such as heat transfer rate, temperature difference on the shell side and as well as a helical coil in the shell that was analysed in CFD.

**Design and Fabrication of Dual Feed Nozzle by using FDM Machine**

**Prediction of Total Acid Number of engine oil using Machine learning Approach**

In this study I am finding TAN for three stages of oil by chemical method and then running same oil in engine by fixing two sensors extracting raw signal and converting it into features by Matlab atlast predicting that features by machine learning algorithm.

**TECHNICAL SKILLS**

Leadership, MATLAB, CREO, C, AUTOCAD, IPG CARMAKER, Abaqus, Solidworks

**INTERNSHIP**

**Graduate trainee** (Automotive Testing Centre),

Through this internship, I gained more knowledge about engine parts and how it works also tested the different types of engine in a test bed beyond the road condition and whether it is certified.

**INTERN**(Aarthi Fabrication and powder coating unit)

This Training helped in constructing the bus and how they fabricate every part and fix it in buses. And also I learned the Electrostatic process during the coating of powder for every part in the bus and they heated in the oven.

**CERTIFICATIONS**

Participated in SUVC which was conducted by

RSTE Society held at Coimbatore

Attended a worshop titled Motor Sports held at IIT Madras Research park Chennai

Completed Course on CREO Conducted by ISS CADD Research centre