Jithin **M**

AI ENGINEER • DATA SCIENTIST

Kollam, India - 691010

✉ jithinmkp94@gmail.com ☐ 8921848860 GitHub LinkedIn

Education

M.Tech in AI and Machine Learning
Kerala, India

T.K.M College of Engineering, (Kerala Technological University)
2020 - 2022

- CGPA score = 7.97
- Minor Project : Object detection of surgical instruments using yolo v5
- Major Project: Area Exploration with mobile robots using reinforcement learing

B.Techn in Electrical and Electronics Engineering
Kerala, India

Jawahar College of Engineering and Technology (Caclicut University)
2011 - 2015

- CGPA score = 9.67
- Project: Power factor correction in indian Railways using capacitor bank network

Work Experience

Internship
Trivandrum, India

Tata Elxsi
Jan 2022 - Jun 2022

- Developed an autonomous navigation system using reinforcement learning, leveraging ROS, and Gazebo.

Senior Engineer
Trivandrum, India

Tata Elxsi
Aug 2022 - Present

- Built multiple chatbots for sentiment analysis, question-answering, and text summarization using Hugging Face Transformers, fine-tuning pretrained models like BERT, RoBERTa, and DistilBERT, deployed via a userfriendly Streamlit interface.
- Developed specialized dashboards for Jaguar Land Rover (JLR), leveraging BigQuery, Tableau, and Python to empower Subject Matter Experts (SMEs) in monitoring and addressing system deviations effectively.
- Designed a navigation page in Tableau Online to streamline access to multiple dashboards, enhancing user experience, and efficiency.
- Developed multiple machine learning models for MHEV (Mild Hybrid Electric Vehicle) DC-DC fault prediction, leveraging one-class SVM, and various binary classification techniques. The models were designed to predict potential DC-DC converter failures, a crucial component in electric and hybrid vehicles, by analyzing operational data and identifying early signs of failure.

Freelancer
Aug 2022 - Oct 2022

- Developed a sentiment analysis system for Amazon customer reviews by first web scraping reviews using BeautifulSoup to extract relevant data from product pages.
- The scraped data was then converted into a pandas DataFrame for efficient processing and analysis. Leveraged state-of-the-art BERT and DistilBERT models to classify the sentiments of customer reviews into positive, negative, or neutral categories.
- The project involved fine-tuning the pre-trained models to enhance performance on sentiment classification, enabling businesses to gain valuable insights into customer opinions and feedback at scale.

Skills

Languages

Malayalam (Native), English (Fluent), Hindi (Intermediate), Tamil (Intermediate)

Programming Languages

Python, SQL, R

Version Control

Git, DVC

Technical Skills

Machine Learning, Deep Learning, Natual Language Processing,Computer Vision

Methodology/Approach

Data Analysis and Visualization, Data Preprocessing and Feature Engineering, Model Deployment
and Integration

Markup Languages

Typst, Quarto, LaTeX

Awards

Best Outgoing Student

Best Outgoing student of EEE batch   *2015*

Topper of the Mtech Batch

Class second in Mtech AI Batch 2020-2022   *2022*

Customer Appreciation Award

won customer appreciation from JLR (Client) for creating a tree visualisation dashboard in
tableau for high Sev MLA BEV validation   *2024-25*