

# AMAL M K

Software Test Engineer (Trained Fresher)

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## Education

<b>Amrita Vishwa Vidyapeetham, Coimabtoe, India</b> M.Tech in Data Science (CGPA: 6.88)	<b>2025</b>
<b>Toch Institute of Science and Technology, India</b> B.Tech in Computer Science (CGPA: 6.32)	<b>2022</b>
<b>KPMHSS, Kerala, India</b> 12th Grade (Percentage: 83%)	<b>2016</b>
<b>Hail Mary EMRHSS, Kerala, India</b> 10th Grade (Percentage: 99%)	<b>2014</b>

## Testing Skills

- SDLC and STLC
- Levels of Testing
- Different Testing Types
- Knowledge in Different Types of Testing
- Preparing Test Scenarios
- Good Knowledge in Test Plan
- Deriving Test Cases from Test Scenarios
- Test Case Execution
- Bug Reporting
- Bug Life Cycle
- RTM (Requirements Traceability Matrix)
- Test Certificate
- Agile Model
- Java OOPS Concepts

## Tools Known

- JMeter
- SOAP UI
- Selenium
- Postman

## Certifications

- Certification in Software Testing from Tech Masters Software Services Pvt Ltd, Thiruvananthapuram
- 100 Days of Code – Python Pro Bootcamp (Udemy)

## Testing Projects

### **BANK IFSC CODE Application**

This application is used for identifying bank details by entering the IFSC Code.

- Analyzed UI document
- Prepared Test Scenarios and Test Cases
- Reviewed Test Cases
- Prepared RTM (Requirements Traceability Matrix)
- Executed Test Cases
- Prepared Test Report
- Prepared Bug Report

### **TMCART Ecommerce Web Application**

This is a web application under the Ecommerce domain, with three modules: Admin, User, and Vendor.

- Analyzed SRS document
- Prepared Test Scenarios and Test Cases
- Reviewed Test Cases
- Prepared RTM (Requirements Traceability Matrix)
- Executed Test Cases
- Prepared Test Report
- Prepared Bug Report

## M Tech Projects and Paper to be published

### **Bilingual Image Captioning in English and Malayalam Using CNNs and Transformer-Based Large Language Models**

(Submitted for Publication)

- Designed a bilingual image captioning framework using ResNet-18 encoder and Transformer decoder.
- Used the Malayalam Visual Genome 1.0 dataset with 29,000+ images and bilingual captions.
- Evaluated using BLEU, METEOR, and ROUGE-L scores for caption quality.

### **Predicting Electric Vehicle Energy Consumption using TabTransformer, TabNet, and BERT-Enhanced Models**

(Under Review IEEE Q1 Journal)

- Built TabTransformer and TabNet models to predict EV energy usage.
- Integrated BERT embeddings for better handling of text features.
- Optimized model using Bayesian Optimization; achieved 20% better accuracy.

## Linguistic Proficiency

**Languages Known:** Malayalam, English, Hindi, Tamil, German