

Software failure analysis software



Requ Ai Trend fore
software defect and fai
towards a reliability

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Contents

01. Challenges

During testing you want to know if the software will meet it's requirements

02. Facts

There is no "one best" model for trending. The best model is a composite of the models that fit your data.

03. Requs Ai Trend

It's the only tool that doesn't force fit models that have assumptions that don't match your data

04. Requs Ai Core Value and ROI

Helps you format your data and provides specific AI queries so you can run an assortment of models, identify the ones that don't fit the data, and ensemble average the models that do.

05. Target users

Software quality assurance, reliability engineering, software management

06. Solution demo and next steps

How to get started Requs AI Trend

Step 1. Enter the data for analysis

The software provides for the data format needed for the models. Enter either defects found per day or test time in hours between defect discoveries.

Option #1 Defects per day				
Date	Number of unique defects found on this day	Number of unique defects found on this day that result in a critical loss of mission	Number of failure events caused by these defects	Average downtime from the failures
	List the number per day	<= column B	>= column B	>=0

Option #2 Test hours between defect discoveries				
Defect #	Test hours between discovery	Does this defect lead to a critical loss of mission?	Number of failure events caused by these defects	Average downtime from the failures
1	Hours between this defect discovery and last defect discovery	Y/N	>= 1	>=0
2				
...				

The above format has higher resolution but requires more effort or a tool to collect

Step 2. Use GenAi queries to generate results

**Requs AI Trend exports
formatted defect/failure data**



**Upload formatted data from
Requs Ai Trend to GenAi
application**

**Upload the Requs Ai Trend
background information to
GenAi application**

Execute prepackaged queries on GenAi



GenAi does the following:

- Estimate remaining (unknown defects)
- Estimate current reliability measures such as failure rate, MTBSF, MTBSCF, probability of success
- Forecast reliability measures forward to determine resources/time required to meet a specific goal
- Estimate downtime and downtime forecast
- Estimate availability from the downtime and downtime forecast
- Discard the models that don't fit your data and ensemble average the ones that due in ranked order of fit
- Prepare a report summarizing the results

REQUS AI Trend Return On Investment

Option 1: Models that don't always fit your data

IEEE 1633 2016 says to prune the models that clearly don't fit
IEEE 1633 2026 advocates for ensemble average



Option 2: Tools developed by academia

These are free and they feel free



Option 4: REQUS AI Trend

Cost: Least
Time required: Least

Option 3: Build your own spreadsheet

Simultaneous equations are time consuming to program

Requs Ai Trend Summary

- Real time analysis
- Faster than other options while using more models for more accurate
- Understand the results and how to make a decision

People who use Requs Ai Trend

Software project risk management plan

The following table contains software project risk management plan. It contains software project risk management plan, risk probability, impact, priority, action plan, etc.

Risk Plan for Project		Project ABC			
Assessment Team Members		Michael, Bella, Quincy and Sophia			
Risk	Probability	Impact	Priority	Action Plan	
Managers will shift operations offshore which will need software projects to go global	Medium	High	High	Michael will collect requirements more accurately and carefully	
Bella will be terminated from project due to failure to fix software bug	High	Medium	High	If Bella is terminated, she will give her 20% time in project review with Quincy	
Reports of failed tasks will be required	Low	Low	Medium	For this risk, Michael will work with Sophia for re-estimation of software tasks	
Expected delay in project due to late software installation	High	Medium	High	• Negotiate with vendor for delayed installation • Add test here	
Time, budget and scope misalignment if software project requirements are not finalized during implementation	Low	Low	Medium	• Ensure requirements and its details are evaluated by stakeholders	

This slide is 100% editable. Adapt it to your needs and capture your audience's attention.

Software Management

Identify how many people you need to support field if you release now

Identify the overall stability of each program increment



Software Test QA

- Determine if the software is ready for release
- Determine how many more test hours you need for it to be ready



RAM engineers

- Quickly identify if the software is trending toward the allocation
- Track software failures before a materiel release

Get Started: Schedule a demo



Flexible Licensing

- **Dedicated and floating license options available**
- **Yearly subscription or perpetual licensing models**



Schedule Demo

- **Schedule a personalized demonstration session**
- **Contact**
sales@missionreadysoftware.com for scheduling



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Contact us at sales@missionreadysoftware.com for a demo today.