

Portfolio

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Data Engineering & Analytics | Python | SQL | SAP-ABAP |
Product/Project Management|Visual Storyteller

Note: Please click on the icon (, , , ) displayed in all the slides to view the project details

Framing Structured Thinking

Monalco Mining:



Monalco Mining is one of the world's largest iron ore mining companies in the world and has offices located across the globe.

Problem Statement: Would Monalco be able to make profit by exhibiting reduction of 20%(\$9M) in ore-crusher maintenance and operating expenditure by 31st December 2020?

Applied Structured Thinking and Problem solving using :

- HDEIP Framework
- Used SMART principles to create a problem statement worksheet.
- Created Mutually Exclusive Collectively Exhaustive (MECE) Issue Trees.
- Created Value Driver Trees.

Financial analysis

Financial analysis is the application of analytical techniques to understand the underlying health of a business.

Analyzed Southern Water Corp case study to derive the following insights

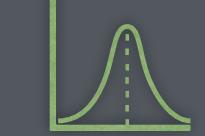
- Create a problem statement
- Create value driver trees
- Complete revenue analysis
- Total operational expenses
- Complete EBIT calculations
- Create a PowerPoint presentation to present visualized data
- Statistical analysis(Descriptive and Inferential) using Python



Economical analysis

- Analysed the Southern Water Corp case study to derive the following insights:
 - Case Study - Market Analysis
 - Case Study - Cost Effectiveness
 - Case Study - What If Analysis
 - PowerPoint slide deck to showcase the visualized data

Statistical analysis

- Analysed the Southern Water Corp case study to derive the following insights: 
- Descriptive statistics - mean, median, mode, histograms, and box plots
- Inferential Statistics - correlation, confidence interval, margins of error, and regression

Visualization



• Tableau:

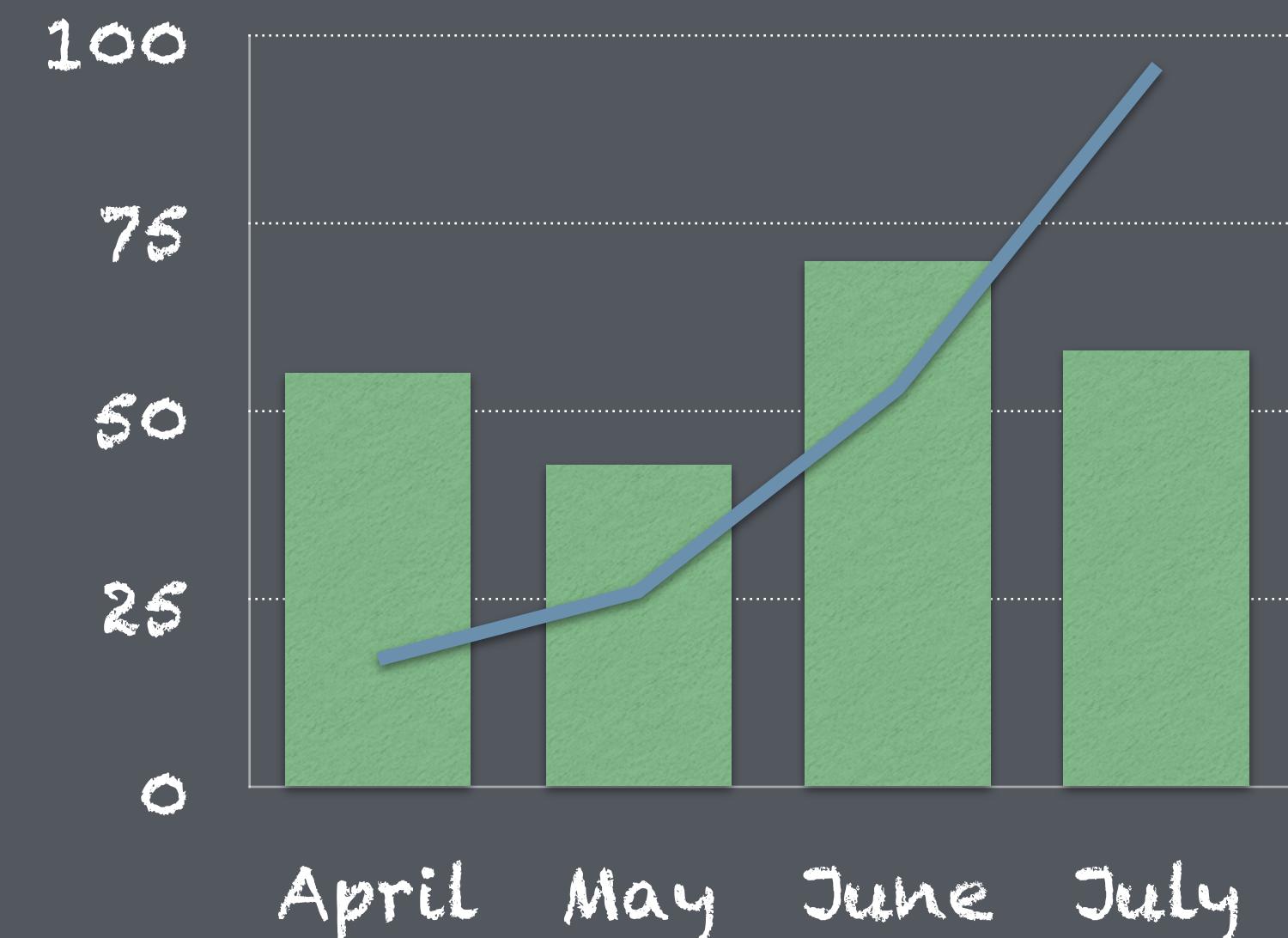
• Link to view the projects -

• Power BI:

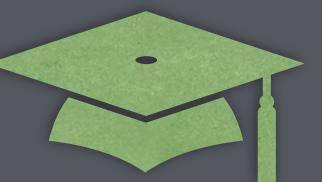


Data Analysis using SQL

- American Energy Market Regulator Case Study with Tableau presentation
- Data-Driven Decision Making
- Exploratory Data Analysis
- Analyzing Business Data



Exploratory Data analysis - Python



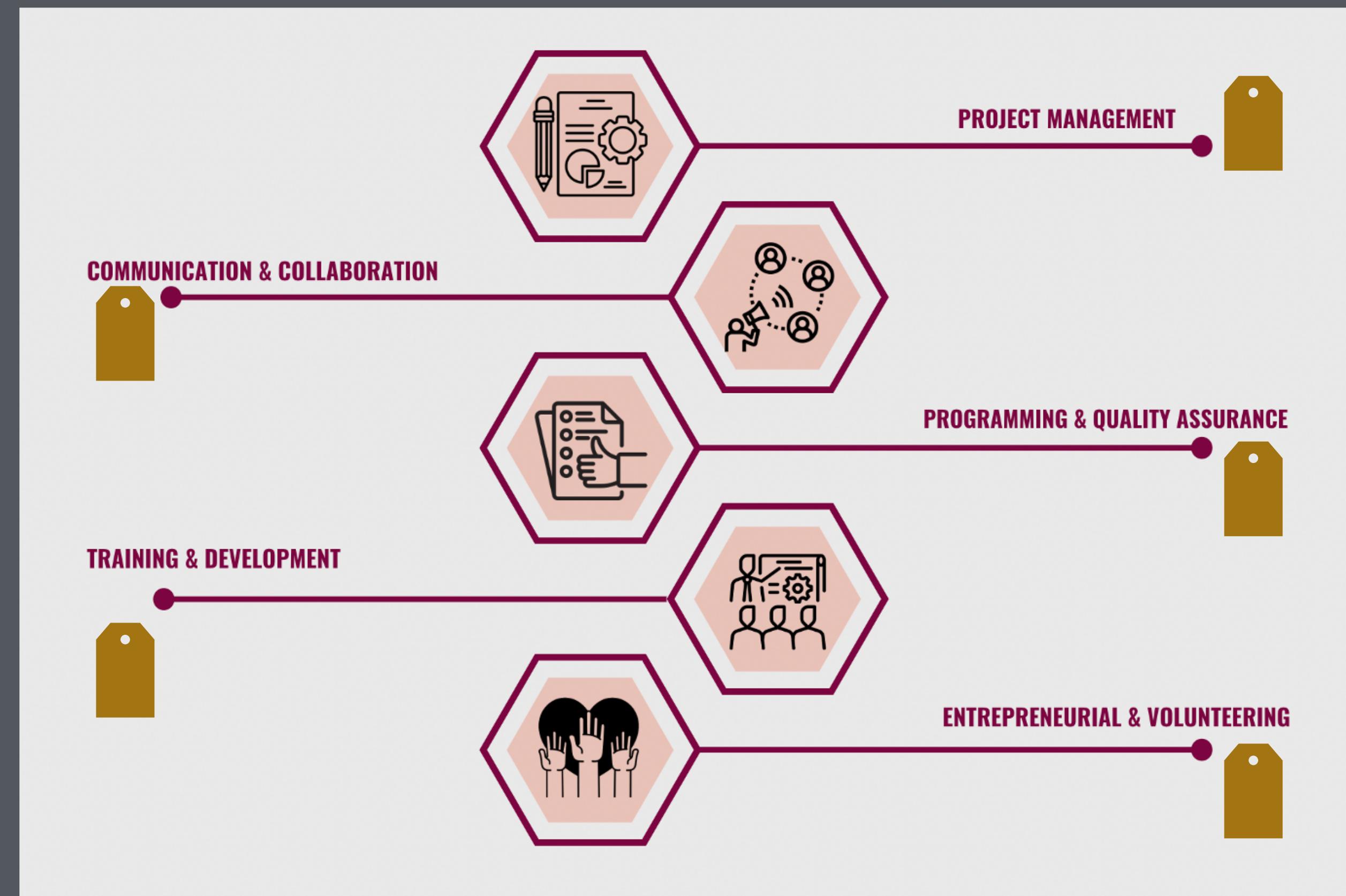
- Visualizing data with Numpy, Matplotlib and Seaborn
- Airbnb Case study: Data Exploration ➔
- Statistical Thinking in Python
- Investigating the implications of pump failure for the Southern Water Corporation using Python data analysis (link included under Financial Analysis)
- Linear modeling with Python

ETL Implementation - PySpark



- Autosys and Airflow Integration
- Airflow dags to trigger databricks workflow
- Databricks - ETL Logic implementation
- API's to connect to Cerberus to fetch the username and password to connect to HANA DB
- API's to trigger alert messages to mail and slack for recon discrepancies
- Detailed Flow documentation Link →

Other Skills



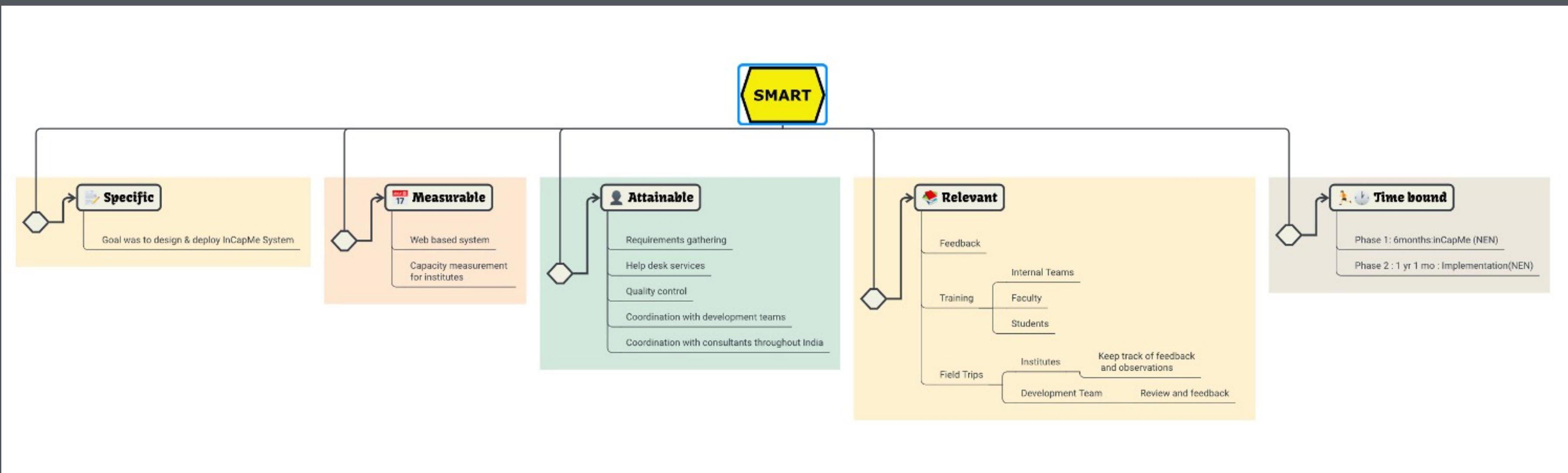
Project Management

Agile Software Development 

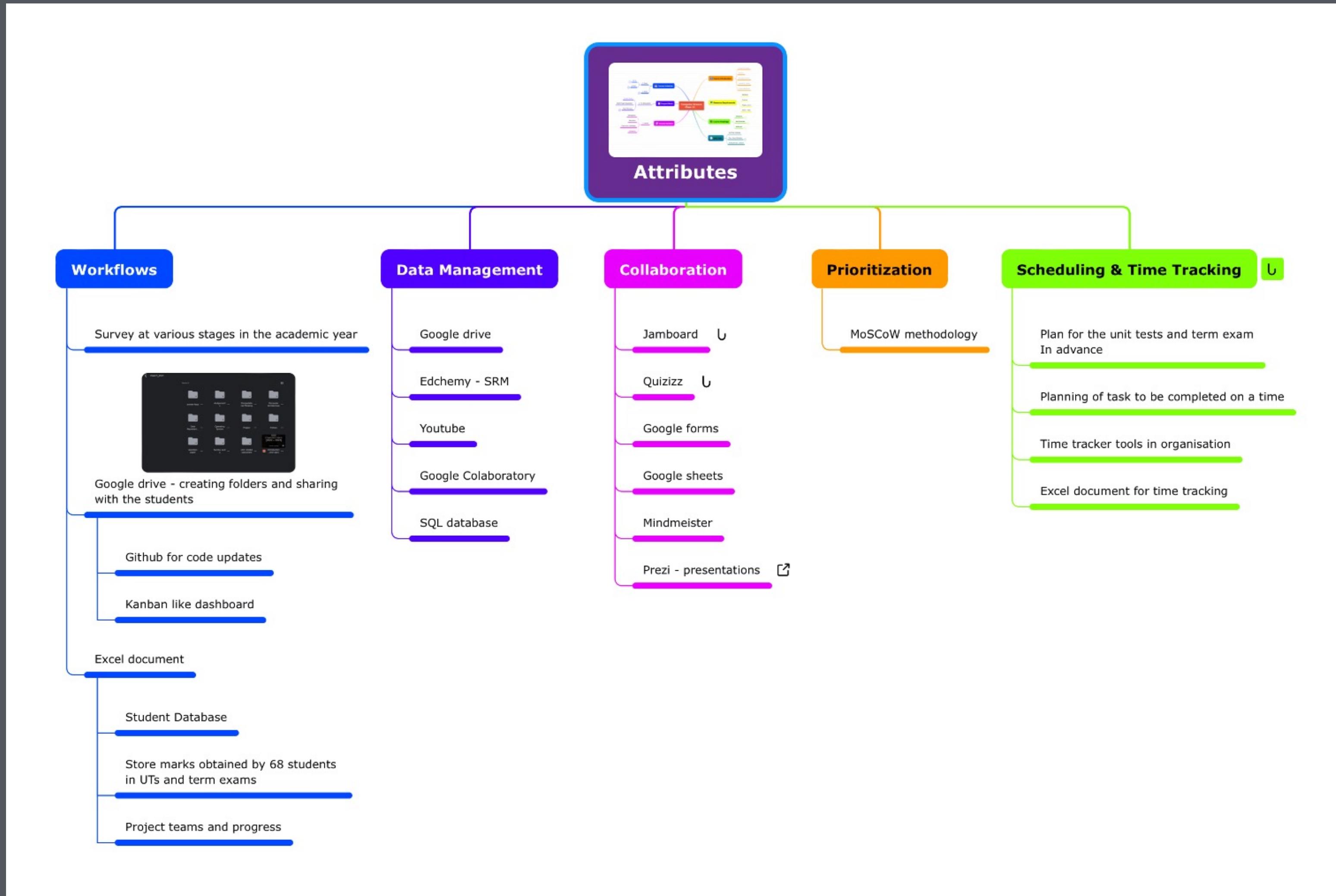
Automate tasks and processes with Jira 

Jira Scrum Project 

Roadmaps in Jira 



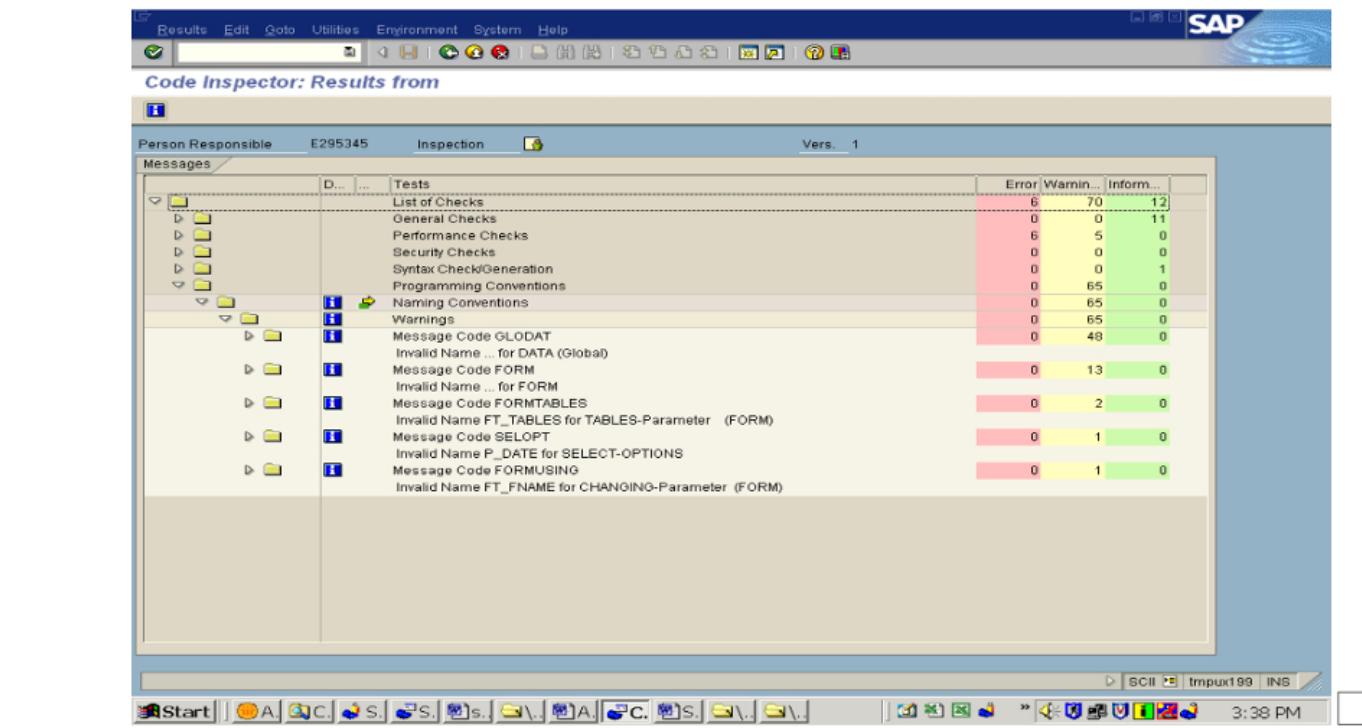
Communication and Collaboration



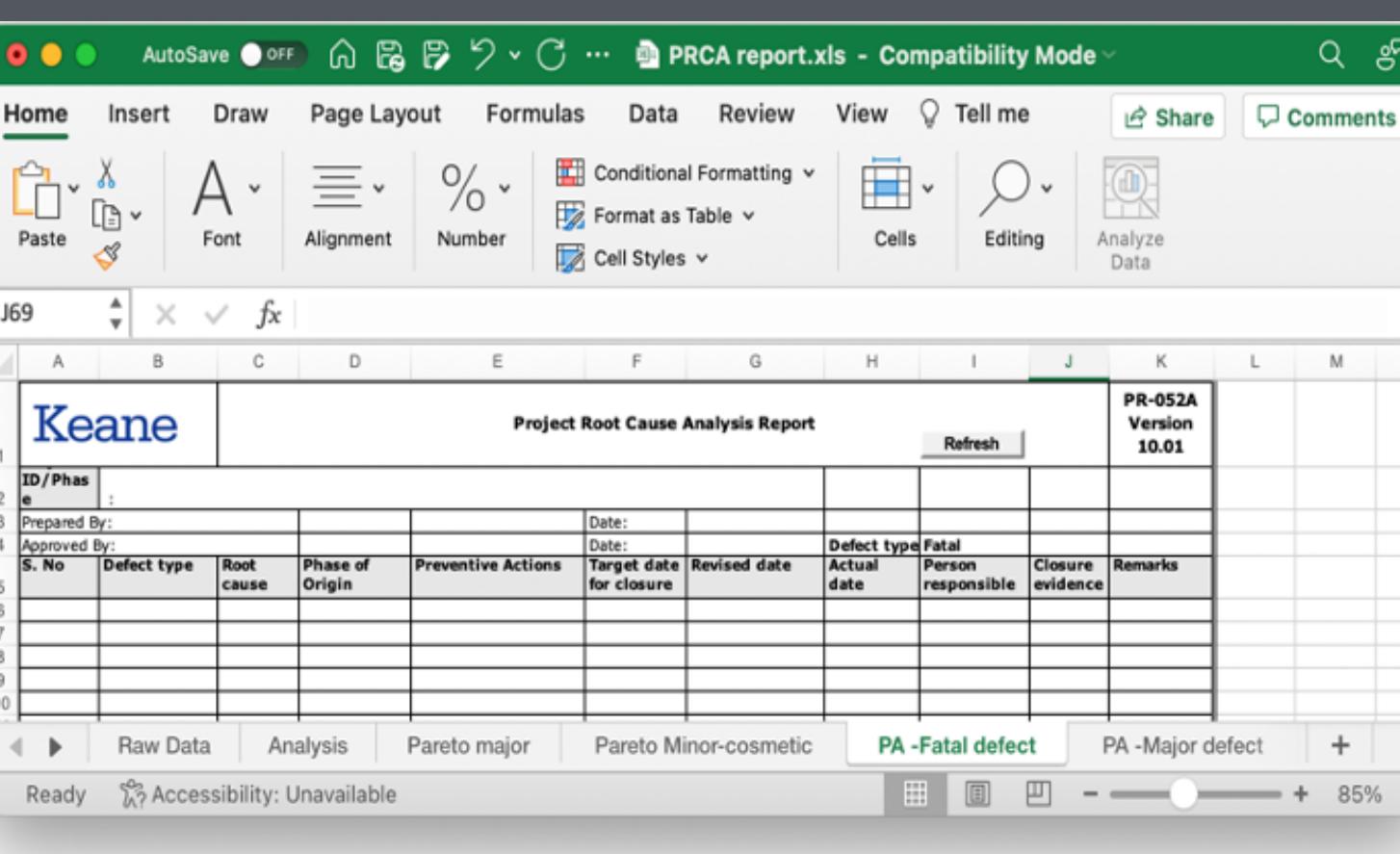
SAP-ABAP/4 Quality Assurance

Defect prevention session conducted based on project root cause analysis report

- Following check results are displayed
 - General Checks
 - Performance checks
 - Security checks
 - Syntax check/Generation
 - Programming Conventions



The screenshot shows the SAP Code Inspector interface with the title "Code Inspector: Results from E295345 Inspection". It displays a hierarchical tree view of code inspection categories and their corresponding error, warning, and information counts. The categories include General Checks, Performance Checks, Security Checks, Syntax Check/Generation, and Programming Conventions. The programming conventions section shows a significant number of errors and warnings, particularly for naming conventions.



The screenshot shows an Excel spreadsheet titled "PRCA report.xls" in compatibility mode. The main sheet is titled "Project Root Cause Analysis Report" and includes fields for "ID/Phase", "Prepared By", "Approved By", and a table for "Preventive Actions". A secondary sheet tab "PA - Fatal defect" is visible at the bottom.

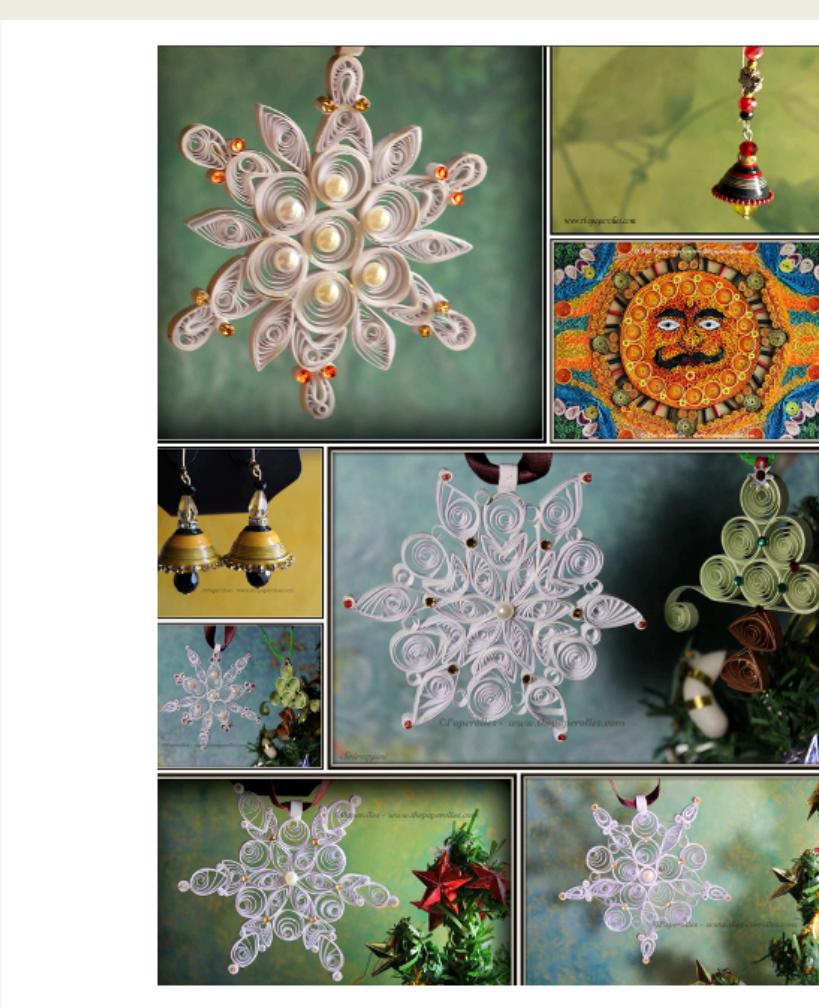
Defects grouped based on severity:

- Fatal

- Major

- Minor & Cosmetic

Entrepreneurial and Volunteering



The Paperolles - www.thepaperolles.com



West Linn/Wilsonville Eco-School Certificate

Rosemont Ridge Middle School

This certifies that

Sriranjini Sridhar

has completed the 2022 Eco-School Changemaker Training

Jeanne Roy
Jeanne Roy
Board Chair


eco-school
NETWORK

Amy Higgs
Amy Higgs
Executive Director

Equipping parents and students to lead school communities toward sustainability.



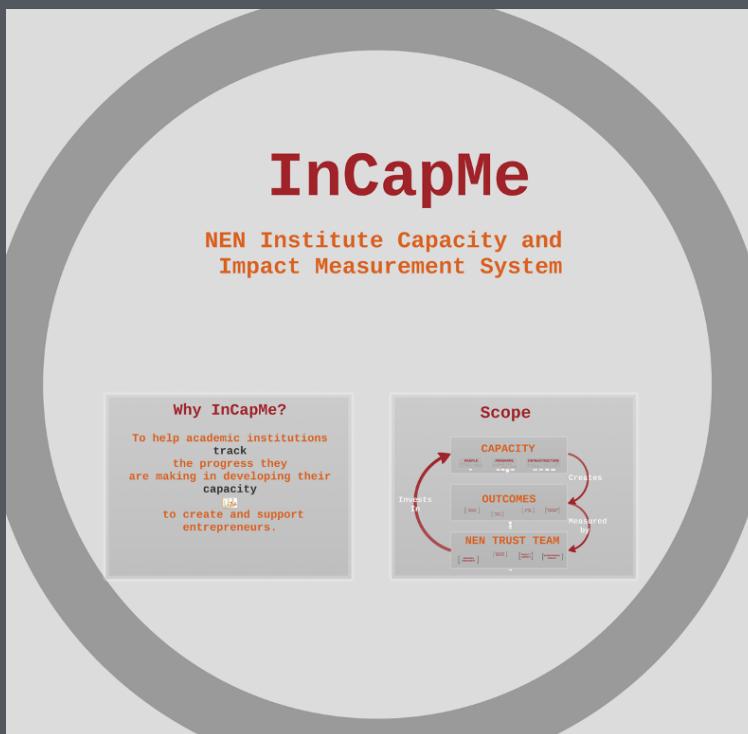
Sustainability
Advisory Board
Member- West Linn



Training and Development



Computer Architecture course creation



Web based InCapMe system training
document to consultants

