

Internship VIVA

Software Engineer

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Main Contents

AiDA Technologies

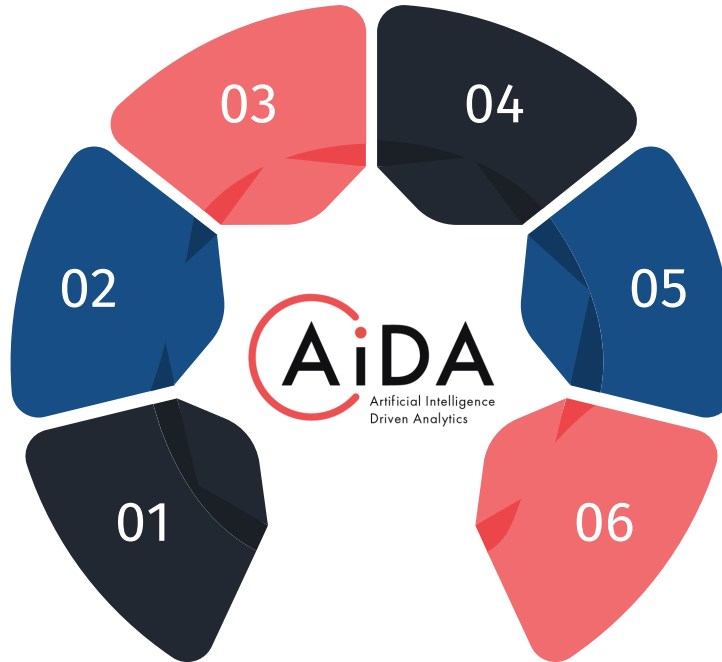
All about the Internship Company

Internship Overview

Internship Journey Timeline

Assignment Portfolio

3 Main Projects executed



Evaluation of Internship

Overview of project achievements

Other Experiences Gained

New Insights of the Working Industry

Conclusion

Summary of Internship

AiDA Technologies



01

Company Profile

02

Interactions with colleagues

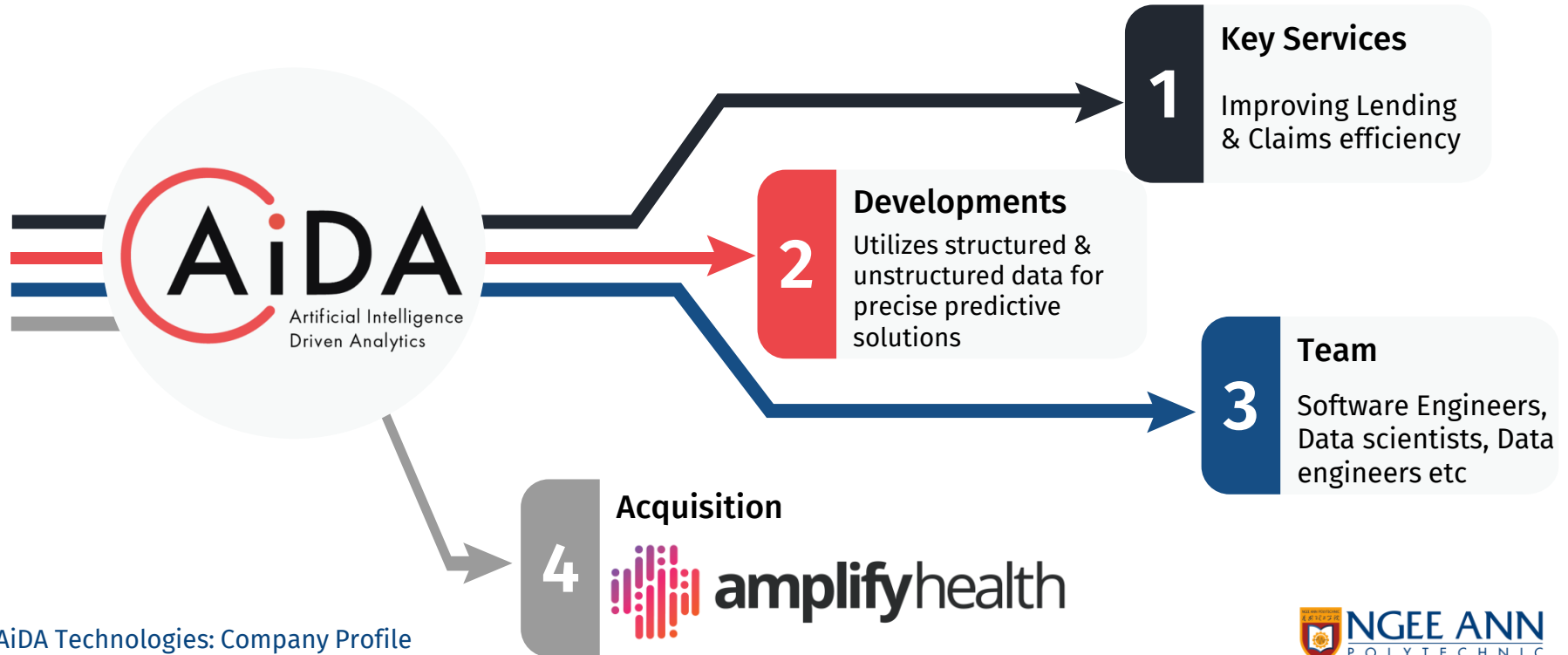
03

Changed perspective & New
Insights of Communication

04

Skills used to bridge differences

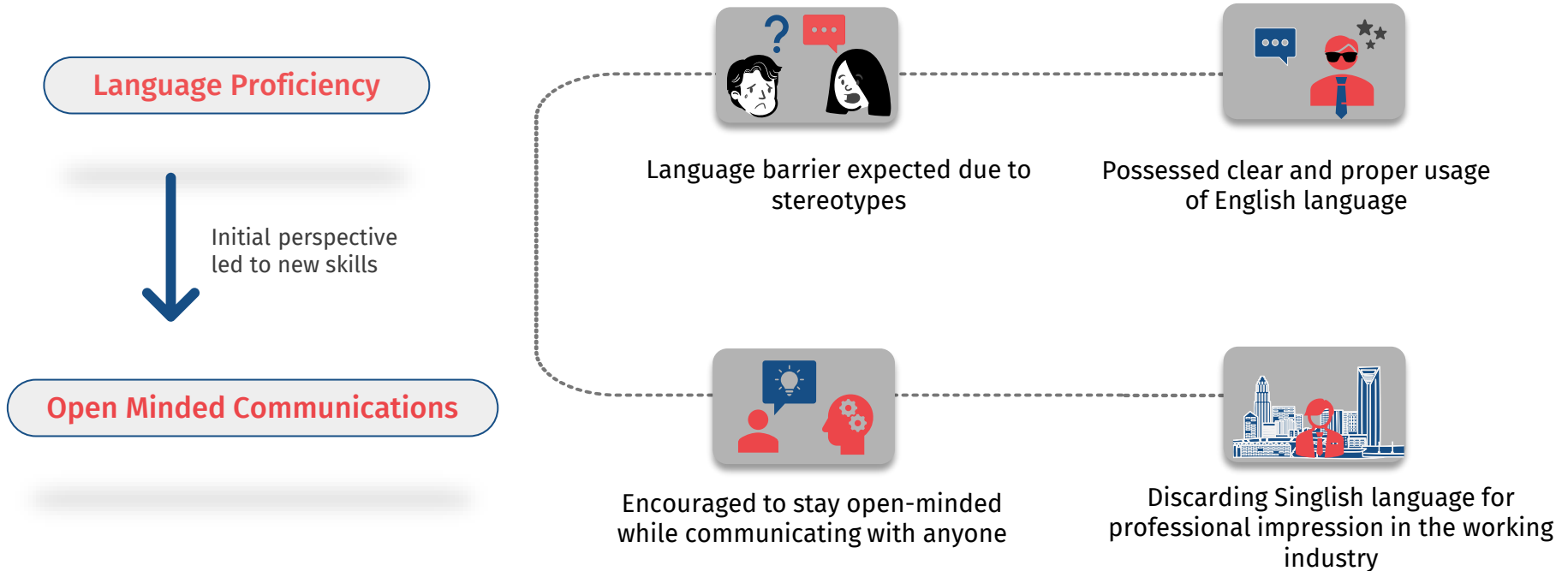
AI-powered Predictive Analytics Solutions Provider





Clients

Changed perspective & New Insights of Communication



Interactions with Colleagues



Interactions with Colleagues

Charismatic

- Brings ease during intense atmosphere
- Positively impacts the socio-cultural environment



Work-Life Balance and Patience

- Prioritizes work-life balance
- Maintains composure towards interns



Encouragement of Independence

- Encourages approaching for help without feeling skeptical
- Gives freedom to work independently without worrying about meetings



Understanding and Trust

- Sets reasonable deadlines, taking into consideration the background of the interns
- Restores trust on Singapore work culture through empathy

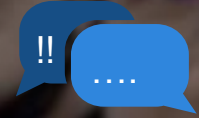


Skills used to Bridge Differences



Similar interests and relatable stories minimize barriers in bonding

Similar Age Group



Similar slang words usage in informal tones to maintain good relationships

Regular chatter sessions about trending news reduce tension in the workplace

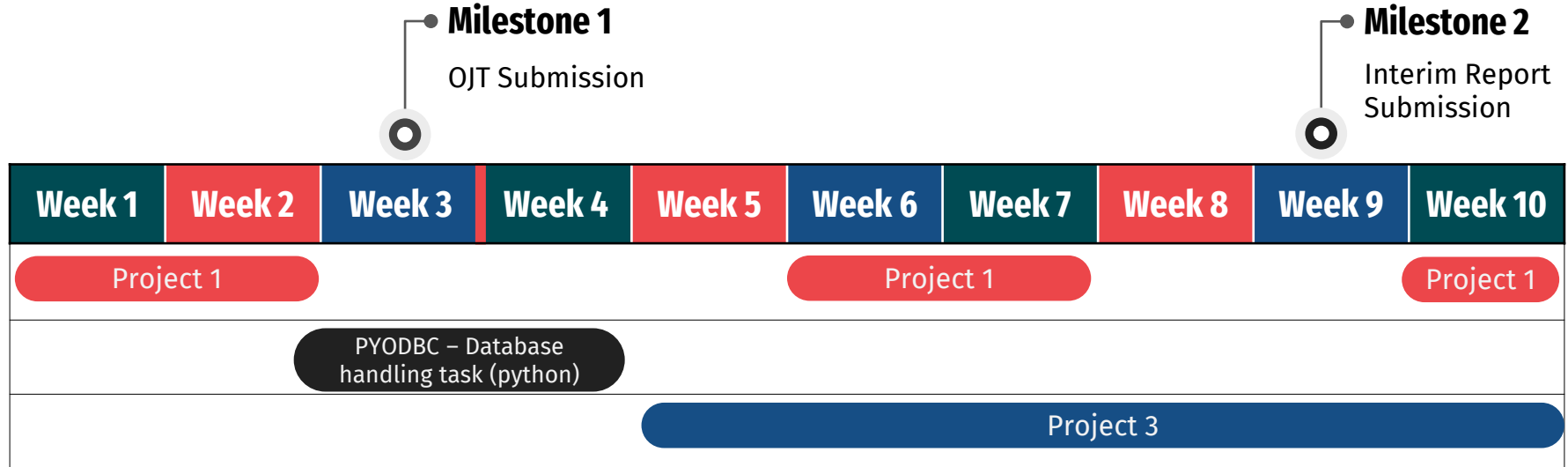


Team Bonding

Weekly lunch outings enhance common sense of humor, overcome differences



Internship Timeline



Project 1

Quality Assurance on data Extraction

● In Progress

Project 2

Currency Converter

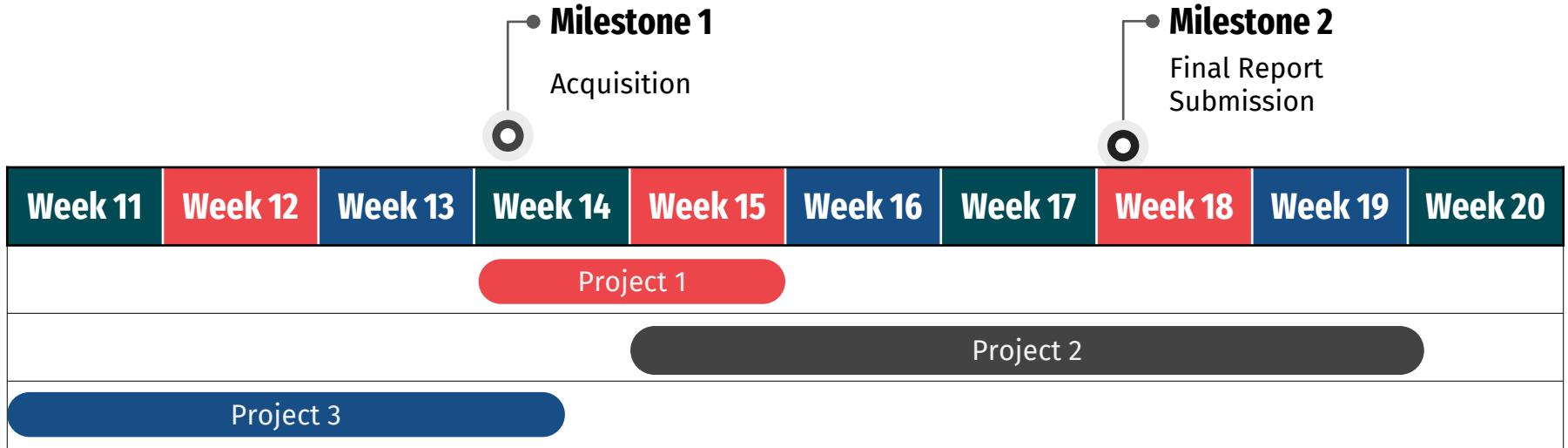
● Not started

Project 3

Vertical Data Extraction

● In Progress

Internship Timeline



Project 1

Quality Assurance on data Extraction

● Completed

Project 2

Currency Converter

● Completed

Project 3

Vertical Data Extraction

● Completed

Assignment Portfolio

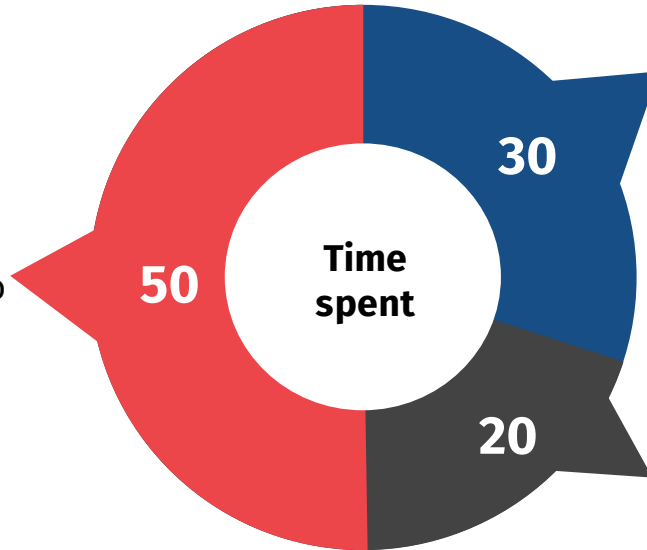
**Assignments
and their time
spent in %**

Assignment Portfolio

Vertical Data Extraction

Developing algorithms to extract data in vertical formatted text files

● Difficulty level: 3



Quality Assurance on Data Extraction

Testing and reporting of data extractions

● Difficulty level: 1

Currency Converter

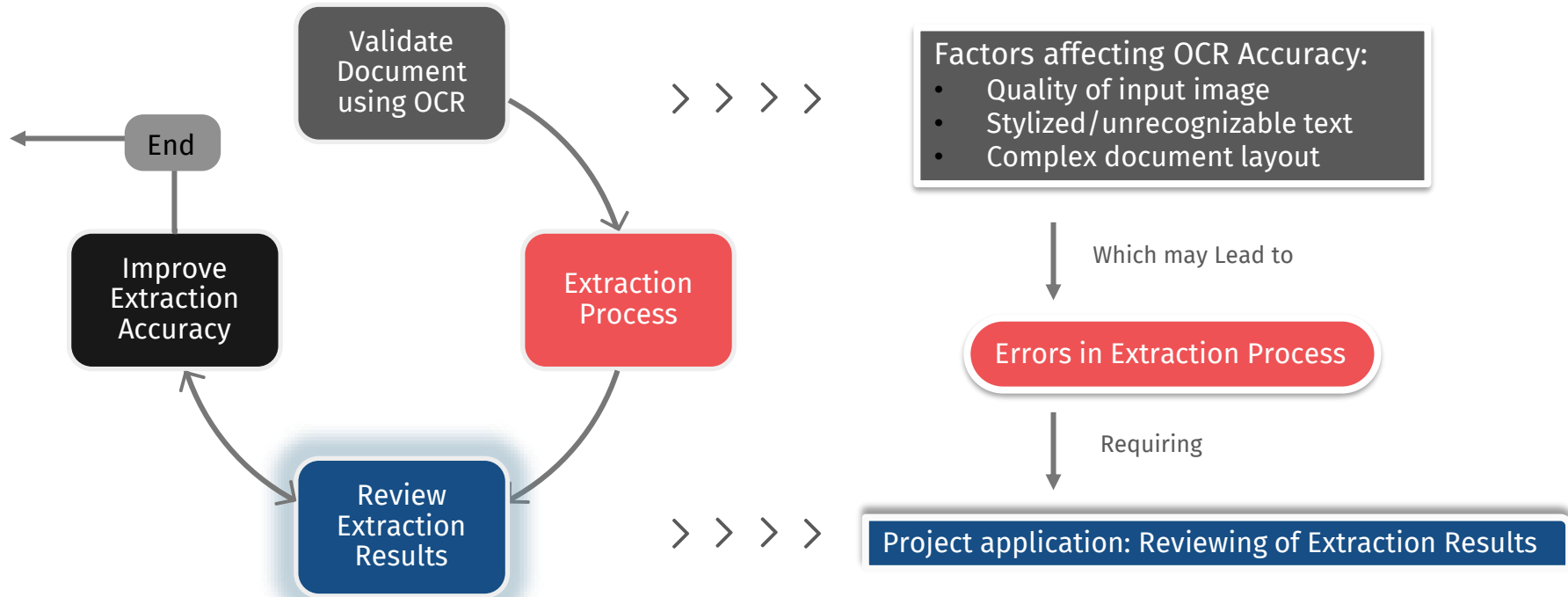
Developing a web application with database handling

● Difficulty level: 2

Project 1

Quality Assurance on Data Extraction

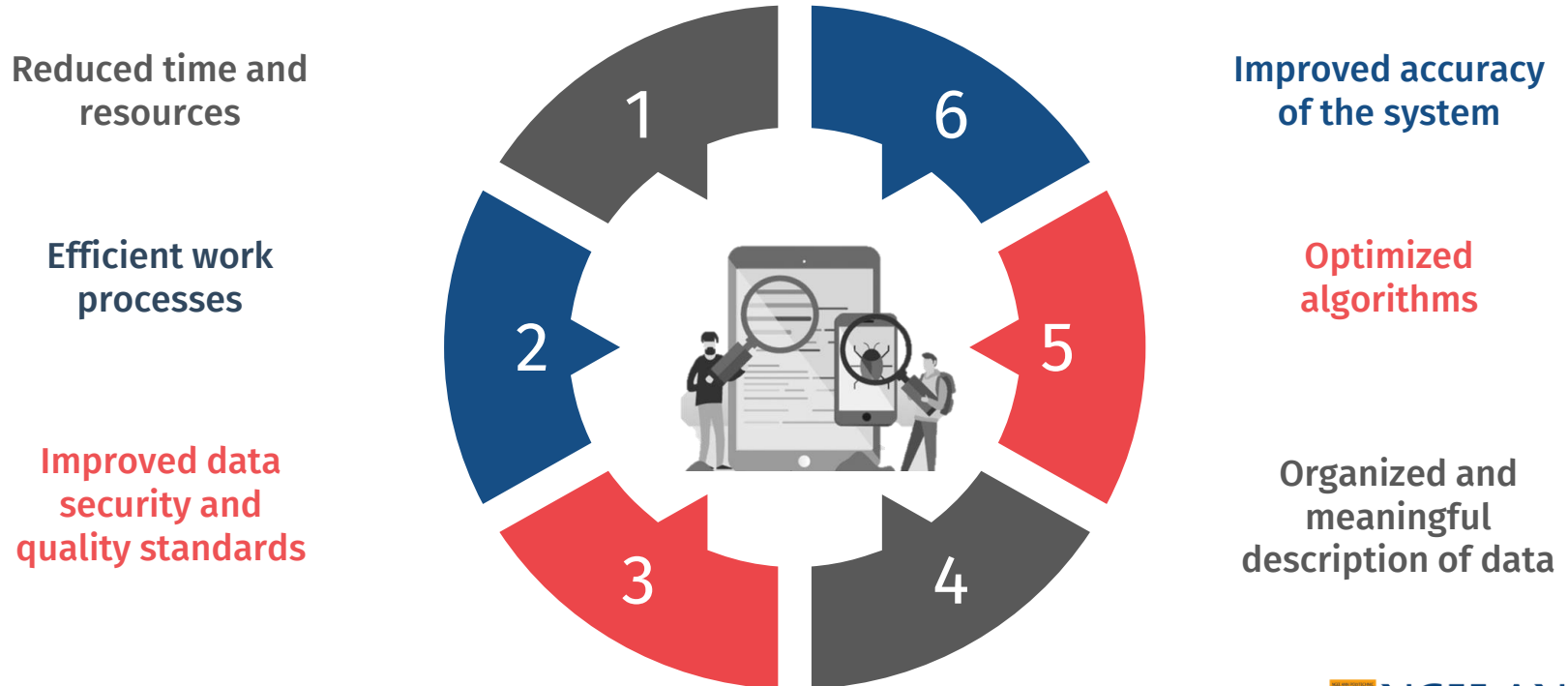
AiDA's Service Product Process



Tasks Carried Out



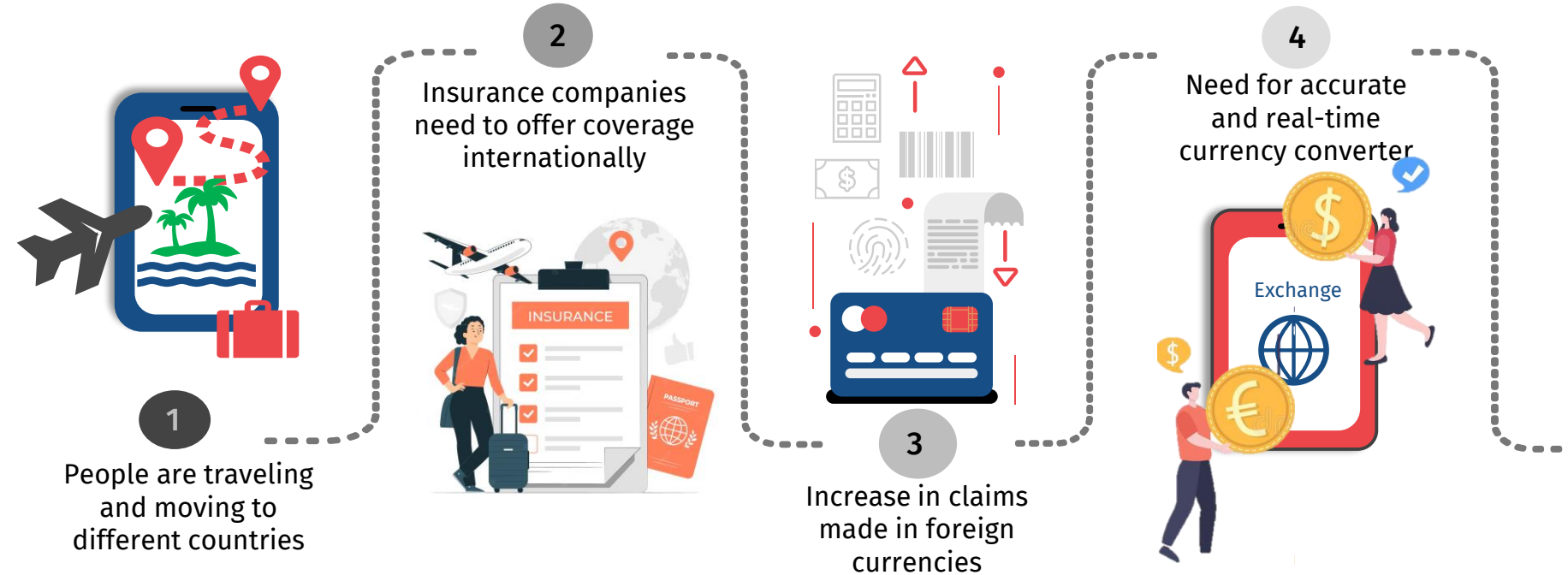
How it Added Value to Company



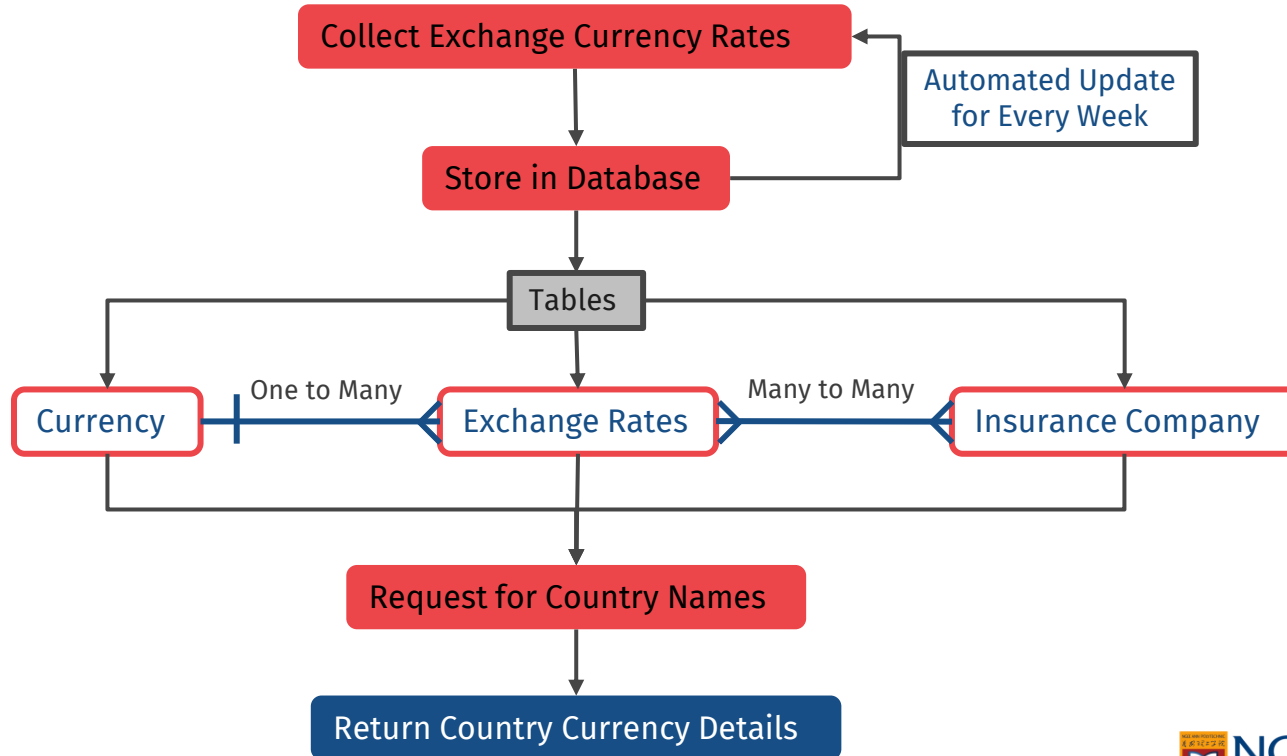
Project 2

Currency Converter

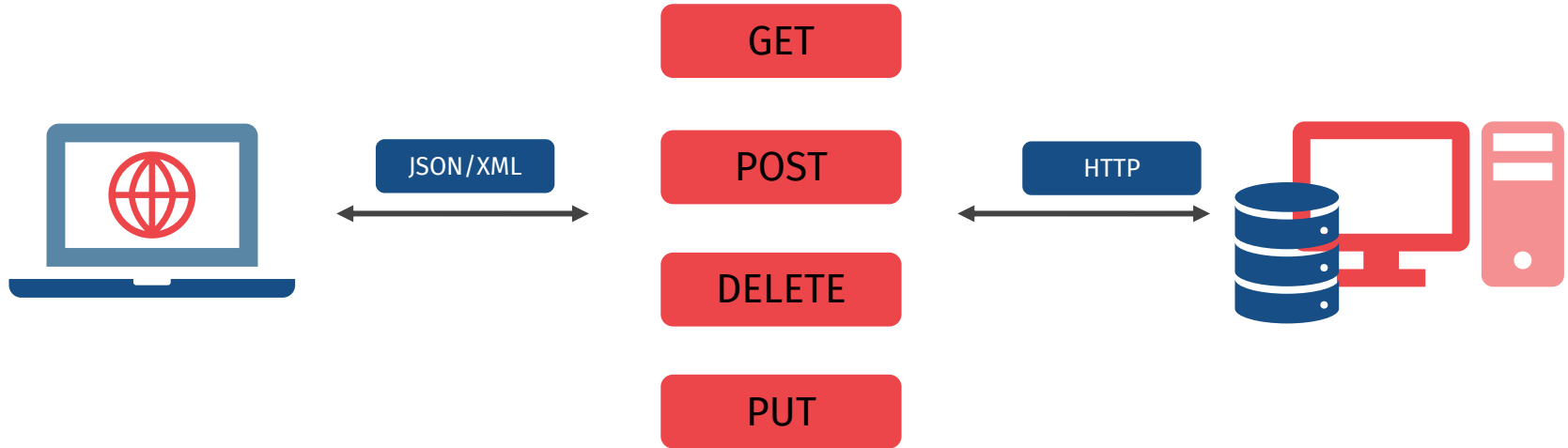
Problem Situation



Project Overview



Web Application



Restful API using Spring Boot

How it Adds Value to Company



Efficiency

Automation of exchange rate data gathering, and storage increases accuracy and saves time and resources.



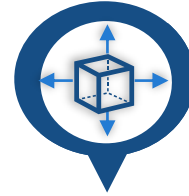
Data accuracy

Automation of data gathering, and storage increases accuracy and ensures data is up-to-date.



Flexibility

On-demand access to exchange rate data enables real-time updates, useful in rapidly changing financial markets.



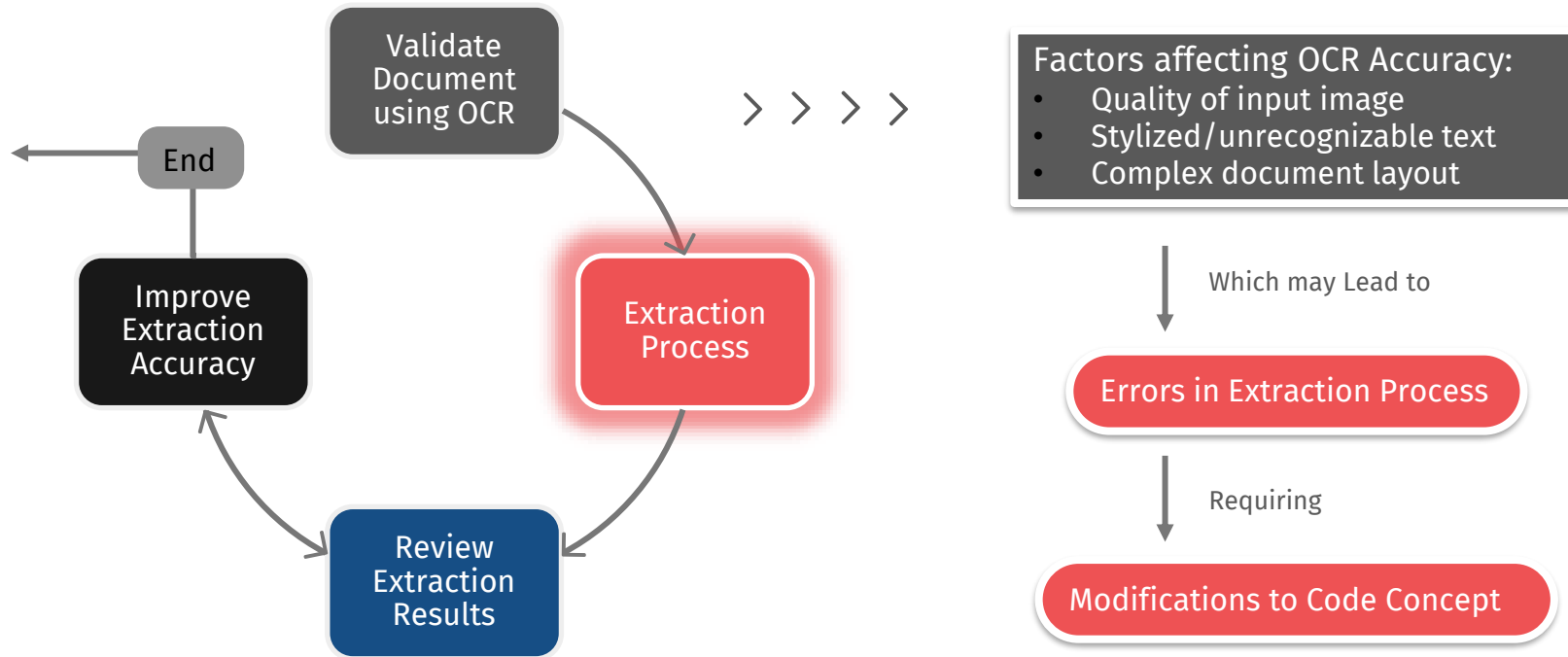
Scalability

Scalable and adaptable to changing needs with ease of modification to include more currencies and longer time periods.

Project 3

Vertical Data Extraction

AiDA's Service Product Process



Initial Extraction Code's Logic

Sample Medical Receipt

TAX INVOICE (Interim).

BILL REF. NO.	BILL DATE	LOCATION	COMPANY NO.
1234F-5678	01 JAN 1999	TESTING DEPARTMENT	T0987654I
NRIC / FIN / MRN	VISIT DATE	01 JAN 1999 23:59 PM	
112345671			

Extraction
Key = Blue
Value = Green/Red

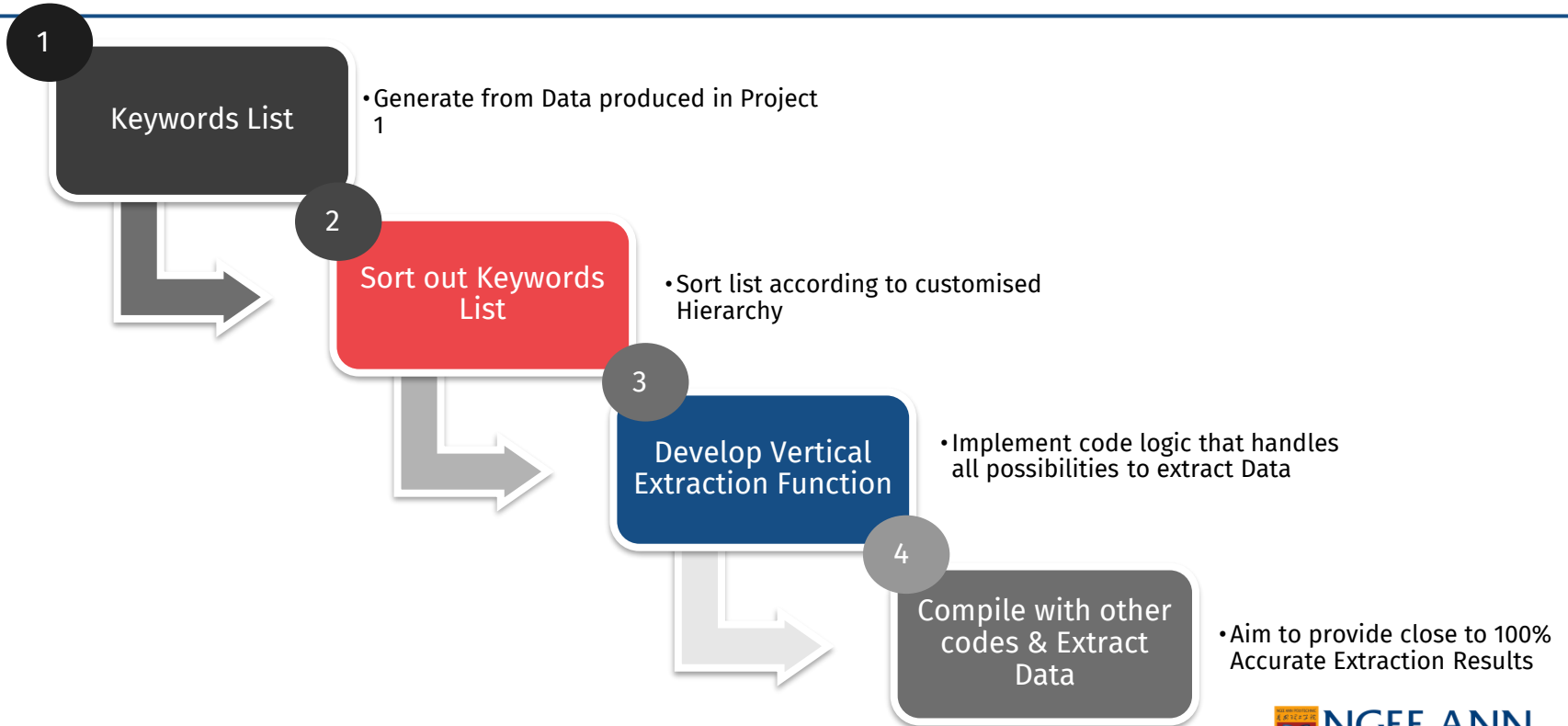
Data Extracted

visit_date	invoice_date	invoice_number	company_number
01 JAN 1999 23:59 PM	LOCATION	BILL DATE	T0987654I

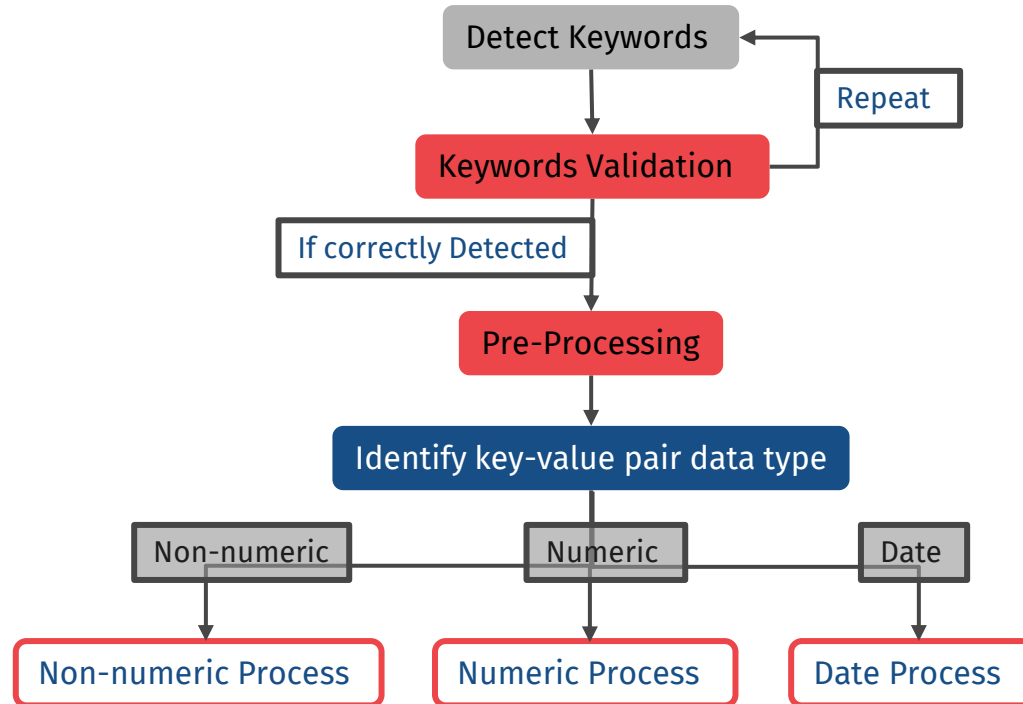
Issue Found

Horizontal alignment key-value pairs can be extracted successfully, However Vertical alignment key-value pairs not being extracted/ Inaccurate

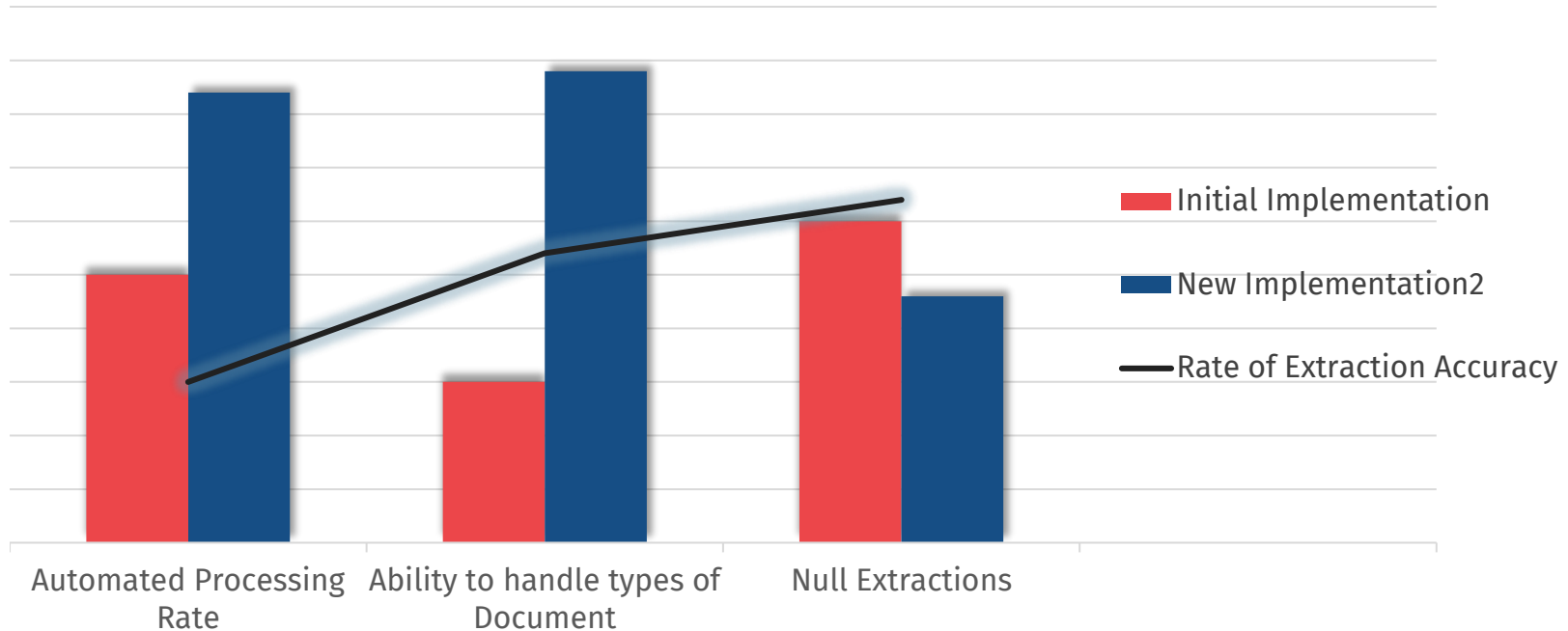
Vertical Extraction Function



Function Concept



How it Added Value to Company



Evaluation of Internship



01

Summary of Achievements

02

Project Planning of Assignments

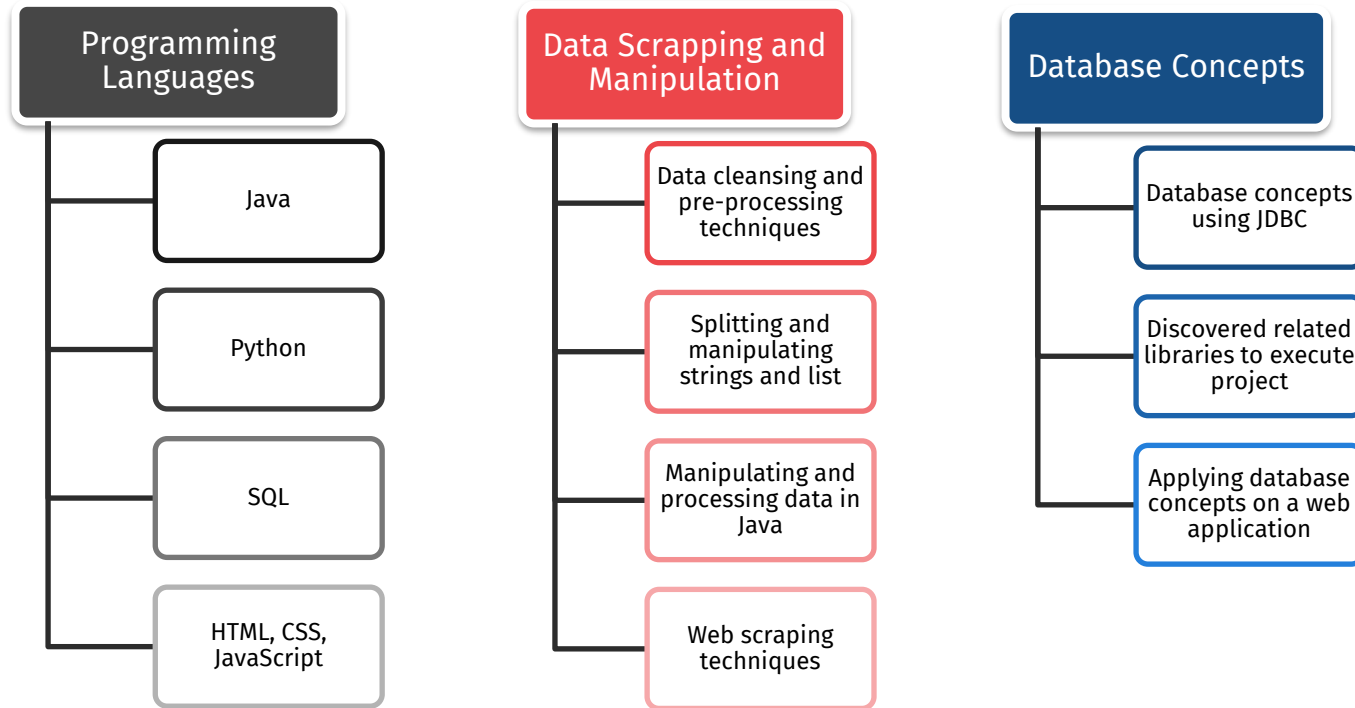
03

Knowledge and Skills learnt
from Diploma Course

Summary of Achievements

Technical skills Gained

Technical Skills Gained



Tools Used



IDE for python
coding



IDE for python
coding,
debugging



Compilation of
extraction in
organized columns



Used MyBatis to
store database
records



IDE for Java
coding,
debugging



stackoverflow



pandas

Summary of Achievements

Soft skills Gained

Soft Skills Gained

Problem Solving and Analytical Skills

- Customized function to extract specific data from a text file
- Modified function to handle various types of data and formatting
- Practical learning and ability to tackle challenges
- Ability to handle errors and obstacles in programming

Flexibility and Adaptability

- Ability to break down projects into smaller tasks
- Setting clear goals and deadlines
- Actively working towards meeting those goals
- Effective time management

Communication Skills

- Effectively conveyed thought process and code functionality
- Clear and concise descriptions of the function theoretical concept
- Ability to collaborate with supervisors
- Effective presentation skills

Open-mindedness and willingness to explore new approaches

- Conducted in-depth research and applied findings to project
- Finding more effective ways to code
- Researching on various libraries for efficient coding

Attention to Detail and Organization

- Thoroughly cleaned data and analyzed it
- Demonstrated ability to focus and stay organized
- Considered different scenarios and edge cases
- Took into consideration of all possibilities that may occur

Project Planning and Control



1

Able to break down project into smaller tasks, set clear goals and deadlines

2

strong time management skills

3

Anticipated potential risks and developed contingency plans to mitigate them

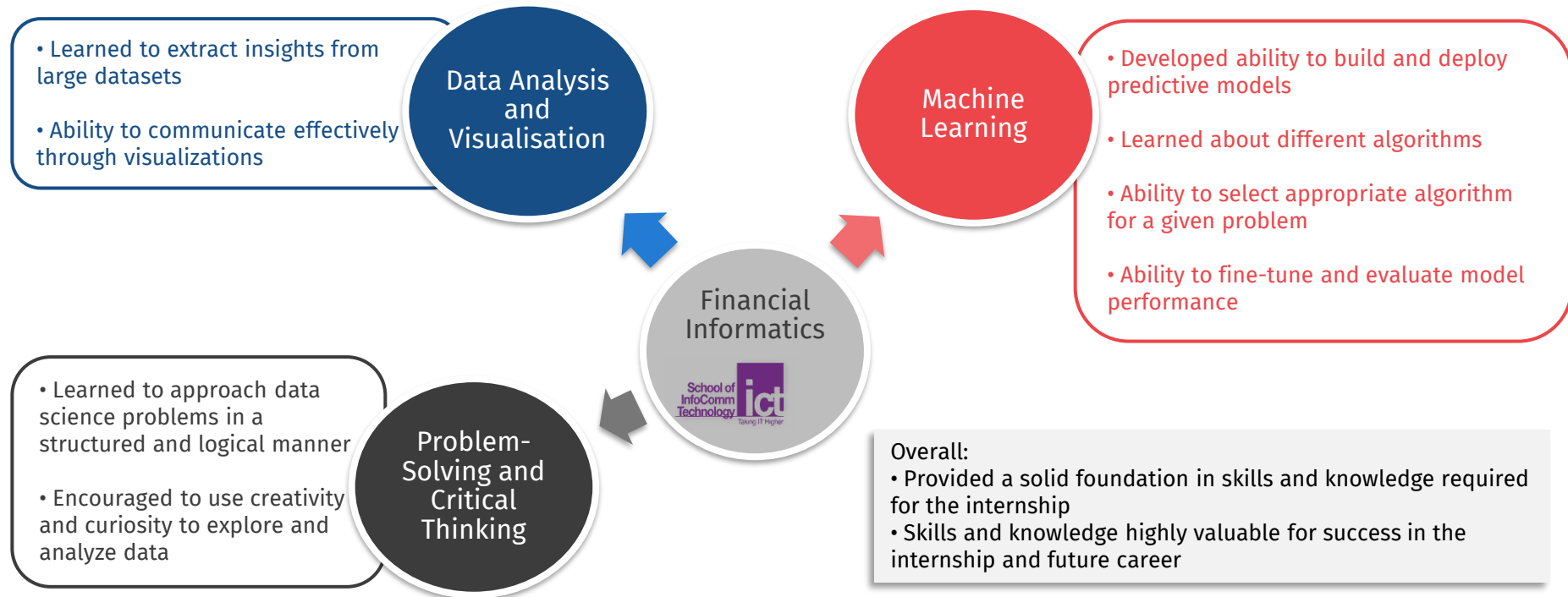
4

Well-organized and efficient project planning and control

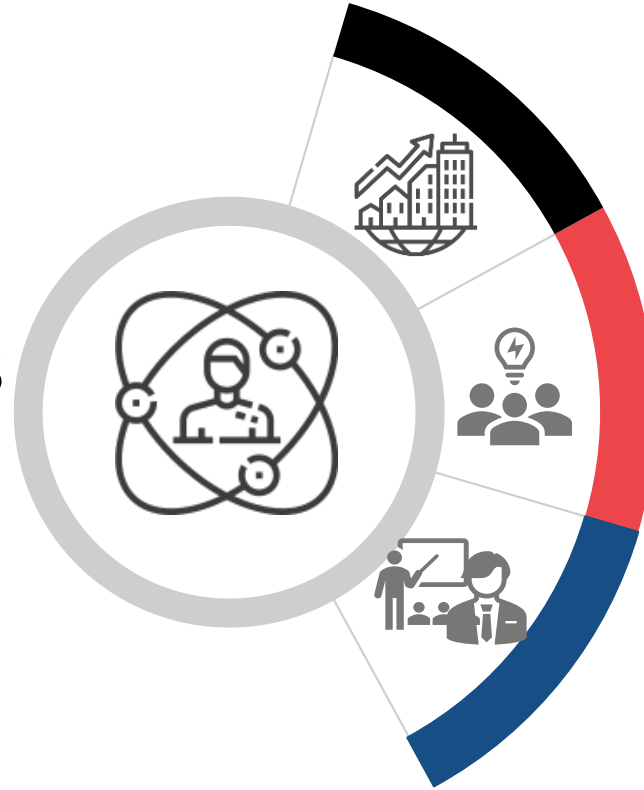
5

Received Necessary guide and motivation from supervisor

Knowledge and Skills learnt from Diploma Course



Other Experiences Gained



01

Startup Company Work Culture

02

Diverse Collaboration

03

The Comparison of Working
Industry to Academic
Environment

Start-up Company Work Culture



Realising the significant impact of every employee



Worked Closely with full-time employees

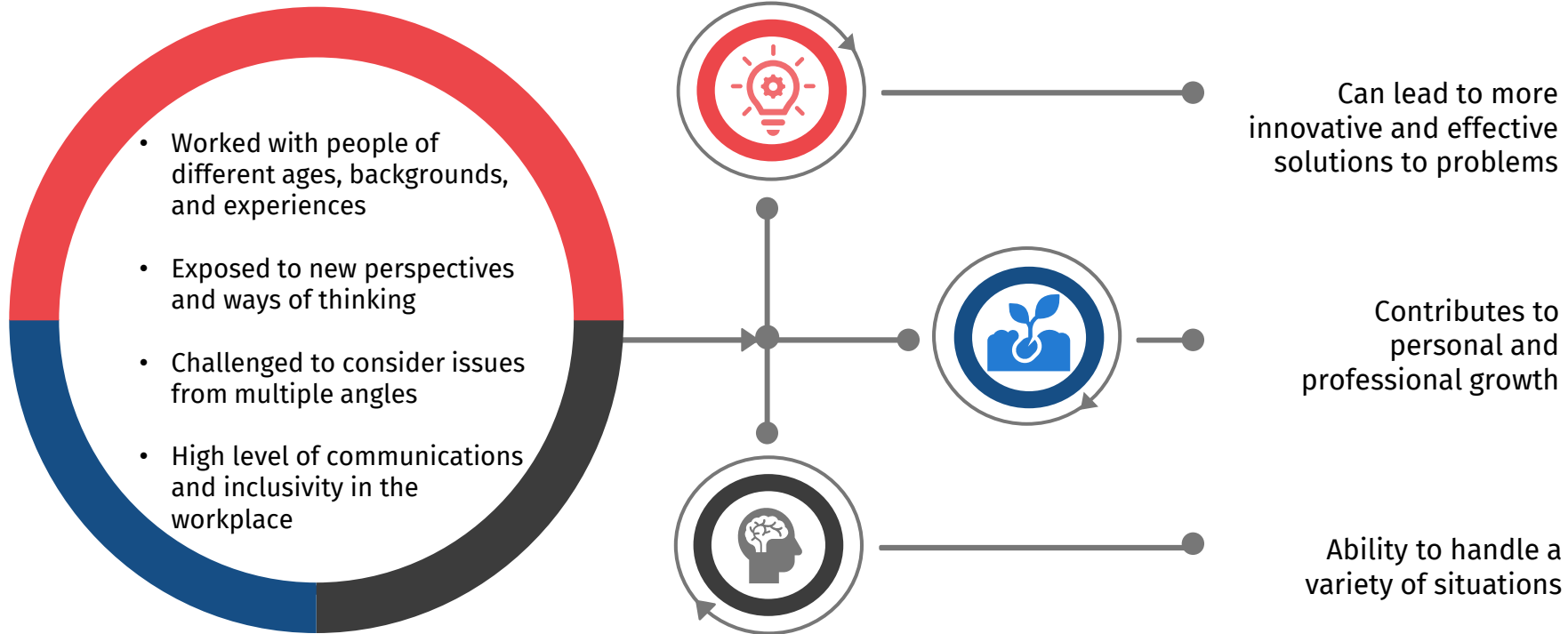


Exposure to real life meetings and discussions



Understanding of demands of full-time work schedule

Diverse Collaboration



Academic Environment vs Working Industry

Academic Environment	Working Industry
Usually having liberty to pick groupmates, same group as friends	Need to collaborate and communicate effectively with colleagues
Does not affect others, rather towards own responsibility and impacts	Faster pace of work and more pressure to meet deadlines
Clear hierarchy with teachers and professors at the top	More flexibility and autonomy
Receive sufficient guidance and help from professors	Greater demands, requiring more self-motivation and adaptability
Academic and personal growth focused	More opportunities for individual and career development

Conclusion



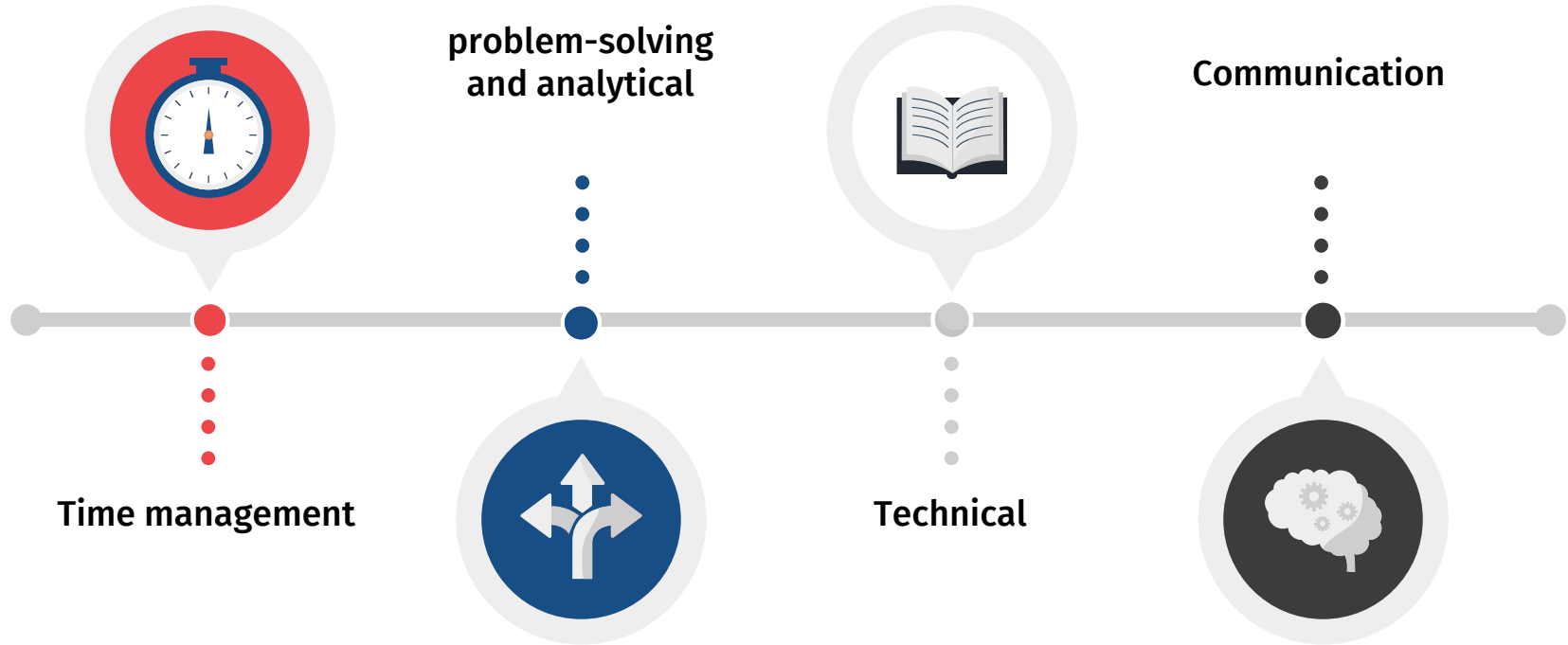
01

Summary of Objectives

02

Suggestions for Improvements

Summary of Objectives



Suggestions for Improvements



Staying up to date with industry trends and developments



Focusing on attention to detail to produce high-quality work



Understanding the difference between school and work culture



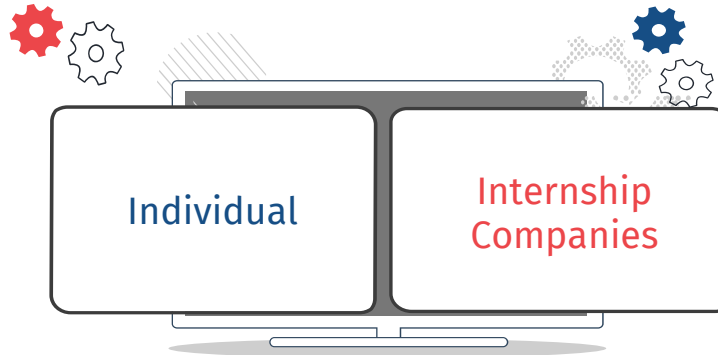
Offering perks such as free meal etc., to interns to enhance the experience



Instructions to set up environments beforehand to save time



Having planned out internship programs with assigned supervisors



Conclusion: Suggestions for Improvements

Thank You

