

**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	23 October 2023
Team ID	Team-592661
Project Name	AI-driven resource 5G optimization
Maximum Marks	4 Marks

**Team Leader :** Repaka Sai Akshith

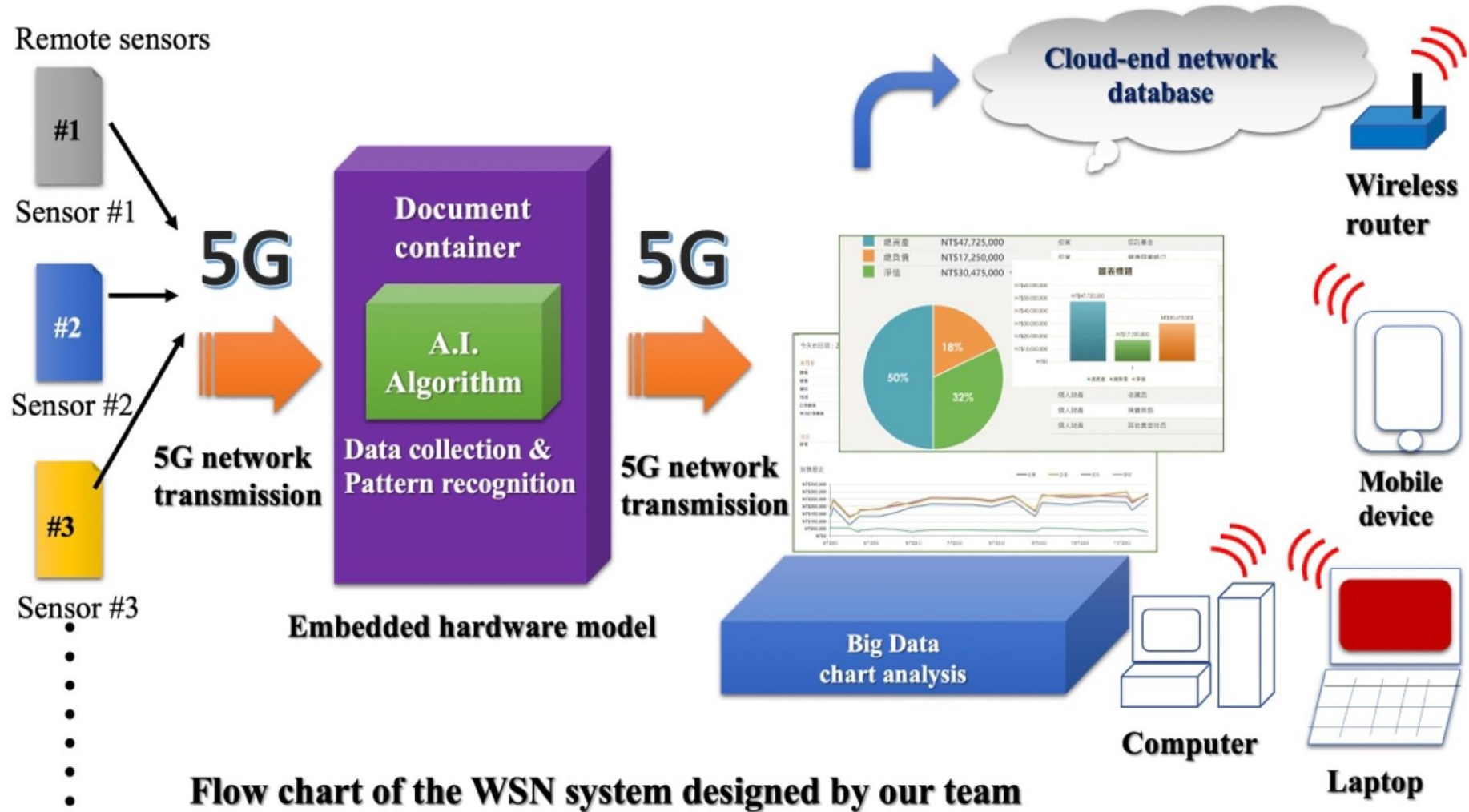
**Team member :** Rajavarapu Jaswanth Sai

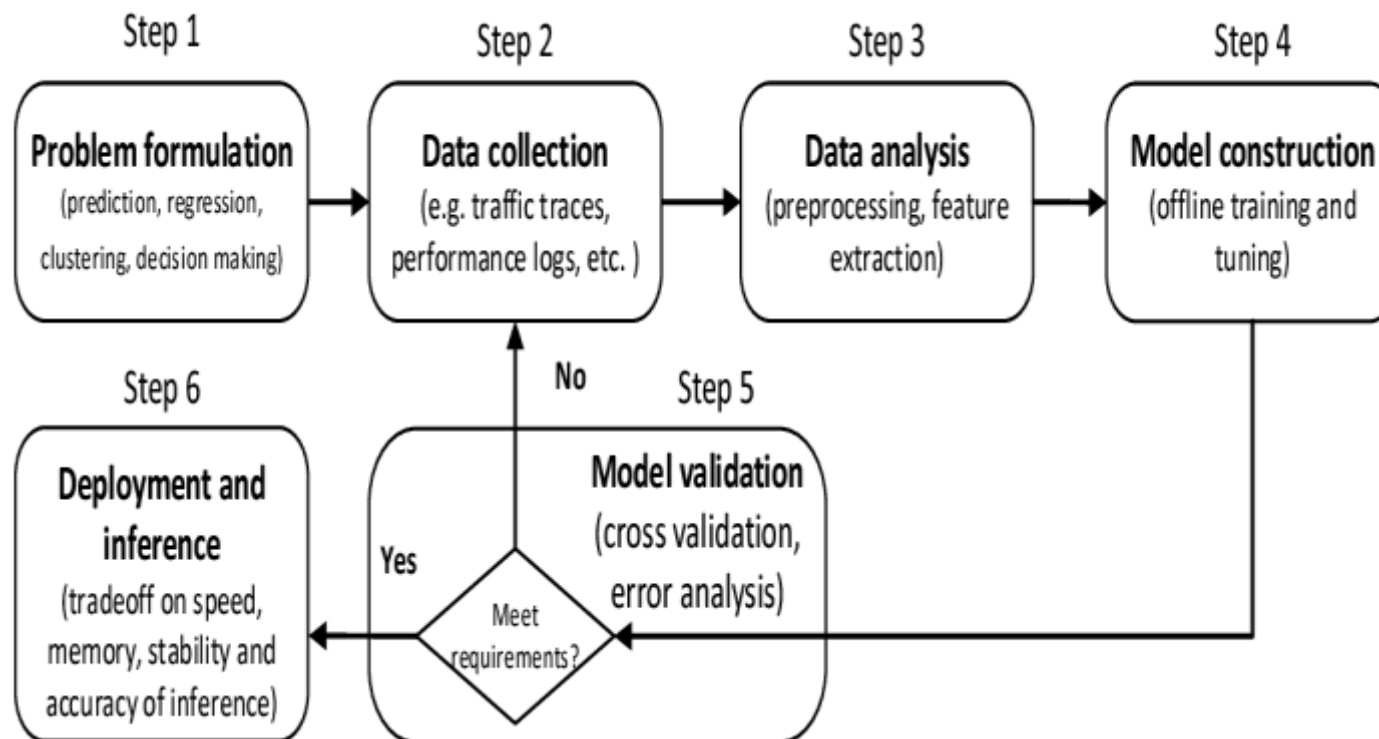
**Team member :** Pemmana Visweshwar Reddy

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:





### User Stories :

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Network Operator	Network monitoring and maintenance	USN-1	"Monitor network performance in real-time." "Implement routine network maintenance procedures."	Real-time network performance data is displayed on the dashboard.	High	Sprint-1
Network Engineers	Network Infrastructure Optimization	USN-2	"Upgrade network hardware to support higher bandwidth requirements."	Routing protocols (e.g., OSPF, BGP) are reviewed and optimized.	High	Sprint-1
AI System Administrators	AI System Management and Optimization	USN-3	"Configure and fine-tune AI models for 5G network resource optimization"	AI models for resource optimization are correctly configured based on network requirements.	Medium	Sprint-2
Data Scientists and Machine Learning Engineers	AI Model Development	USN-4	"Develop and fine-tune machine learning models for 5G network resource optimization."	Machine learning models are developed and tested for resource optimization.	Medium	Sprint-2
Customer Support Teams	Customer Support and Issue Resolution	USN-5	"Collaborate with network engineers to resolve complex customer issues."	Customer inquiries are promptly acknowledged and recorded.	Medium	Sprint-3
End Users and Subscribers	User Experience and Network Performance	USN-6	"Provide feedback on network performance and AI-driven optimizations."	End users and subscribers notice a significant improvement in network performance and reliability.	Low	Sprint-3

Network Maintenance Technicians	Network Maintenance and Infrastructure Management	USN-6	"Perform regular maintenance tasks to ensure the network's physical components are in good condition."	Upgrades and changes do not result in network downtime or performance degradation.	Medium	Sprint-2
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