Plan of Action:

Phase 1: Planning and Req.

* Month 1: Review of existing SDN infra  
  SDN is a networking architecture that provides centralized management, automation, and dynamic traffic routing.
* **Month 2: Requirements from Network Admins, Security Ers. of SAMSUNG**
* Month 3: List specific tasks and info that the chatbot should handle, i.e the overall arch, components, and functionality.

Phase 2: Dev

* Month 4: Develop chatbot's NLP/NLU/NLG and machine learning (ML) models (preprocessing + model training)
* Month 5: Integration with the SDN orchestrator system, wrt REST APIs: Real-time network info
* Month 6: UI/UX

Phase 3: T&D

* Month 7: Testing
* Month 8: Deployment & final integration

Addn. Check:

* Security: Encryption, authentication, and authorization
* Load Balancing: Large no. of users and devices; Cloud-Based deployment

**The chatbot should be able to ask generic questions beyond troubleshooting, like “How to setup VLAN?” and “Does AP have capacity?”**

Commercial:

* Cisco Network Assistant: Cisco Network Assistant is a chatbot that can be used to manage Cisco SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and monitoring network performance.
* Juniper Networks Junos Automation: Juniper Networks Junos Automation is a chatbot that can be used to manage Juniper SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and deploying and managing network applications.
* Nokia Network Assistant: Nokia Network Assistant is a chatbot that can be used to manage Nokia SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and monitoring network performance.
* Huawei CloudCampus Assistant: Huawei CloudCampus Assistant is a chatbot that can be used to manage Huawei SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and deploying and managing network applications.
* ONAP Chatbot: ONAP Chatbot is a commercial chatbot that can be used to manage ONAP-based SDN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.
* SDNBot: SDNBot is an open-source chatbot that can be used to manage SDN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.
* Cisco SD-WAN Chatbot: Cisco SD-WAN Chatbot is a commercial chatbot that can be used to manage Cisco SD-WAN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.
* Juniper Networks Chatbot: Juniper Networks Chatbot is a commercial chatbot that can be used to manage Juniper Networks SDN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.

Open Source:

* ONOS Chatbot: ONOS Chatbot is a chatbot that can be used to manage ONOS SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and monitoring network performance.
* Mininet Chatbot: Mininet Chatbot is a chatbot that can be used to manage Mininet SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and deploying and managing network applications.
* Floodlight Chatbot: Floodlight Chatbot is a chatbot that can be used to manage Floodlight SDN networks. It can perform a variety of tasks, including configuring devices, troubleshooting problems, and monitoring network performance.
* SDN Chatbot: SDN Chatbot is an open-source chatbot that can be used to manage SDN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.
* Chatbot for SDN Controller: Chatbot for SDN Controller is an open-source chatbot that can be used to manage SDN controllers. It can perform a variety of tasks, including network troubleshooting and configuration.
* Chatbot for SDN Network Management: Chatbot for SDN Network Management is an open-source chatbot that can be used to manage SDN networks. It can perform a variety of tasks, including network troubleshooting, configuration, and monitoring.
* The OpenDaylight community has developed a chatbot called "ODL Chatbot" that can be used to manage OpenDaylight-based SDN networks.
* Juniper Networks Contrail SD-WAN Chatbot: This chatbot is designed to help network administrators manage their Juniper Networks Contrail SD-WAN networks. It can perform a variety of tasks, including troubleshooting network problems, configuring network devices, and monitoring network performance.
* Cisco ACI Chatbot: This chatbot is designed to help network administrators manage their Cisco Application Centric Infrastructure (ACI) networks. It can perform a variety of tasks, including configuring network devices, troubleshooting network problems, and generating reports.
* Nokia NetWorks Planner Chatbot: This chatbot is designed to help network administrators plan and design their Nokia Networks networks. It can perform a variety of tasks, including generating network maps, calculating network bandwidth requirements, and simulating network traffic.
* Huawei SDN Assistant: This chatbot is designed to help network administrators manage their Huawei SDN networks. It can perform a variety of tasks, including configuring network devices, troubleshooting network problems, and monitoring network performance.
* IBM Watson Orchestrator Chatbot: This chatbot is designed to help network administrators manage their SDN networks using IBM Watson Orchestrator. It can perform a variety of tasks, including deploying and configuring network devices, monitoring network performance, and troubleshooting network problems.