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Conversational Artificial Intelligence Virtual Assistant with Full Stack Observability

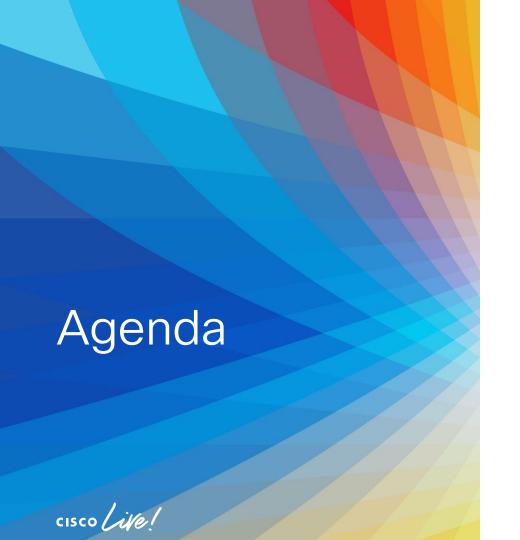
Driven by Data, ML/Al models, User Experience Design, and Research

Kanishka Priyadharshini Annamalai Data Scientist Manjula Shivanna Leader, Data Science Rohit Katiyar Data Scientist

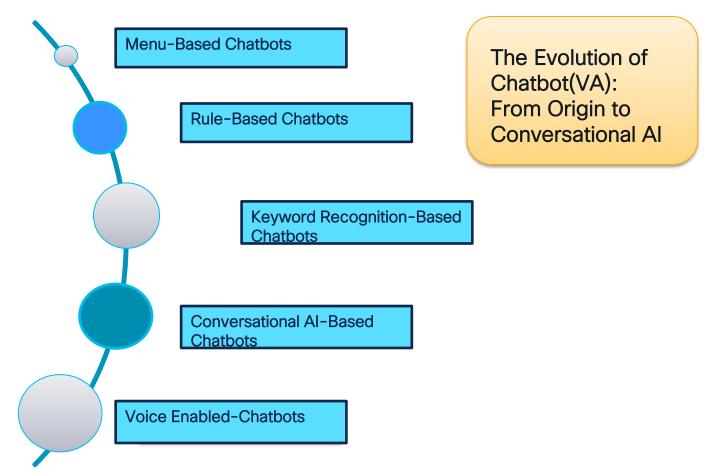
Gurvinder Singh Director, Data Science

BRKOPS-2644

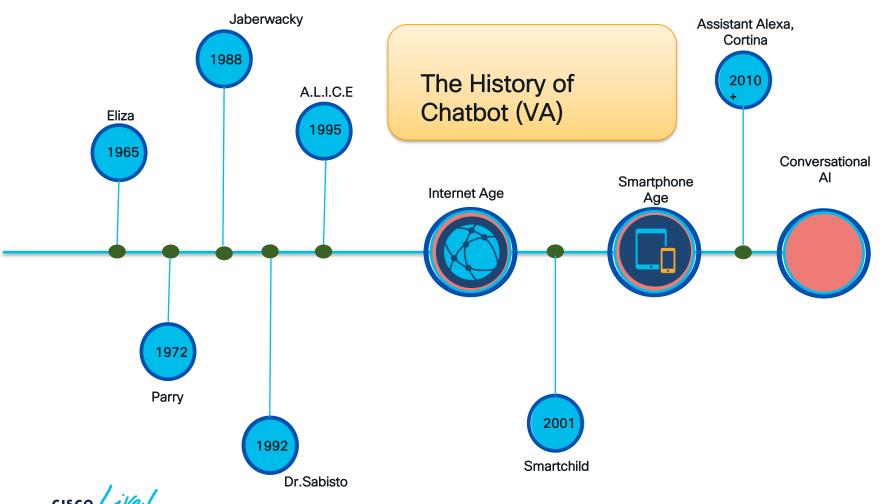


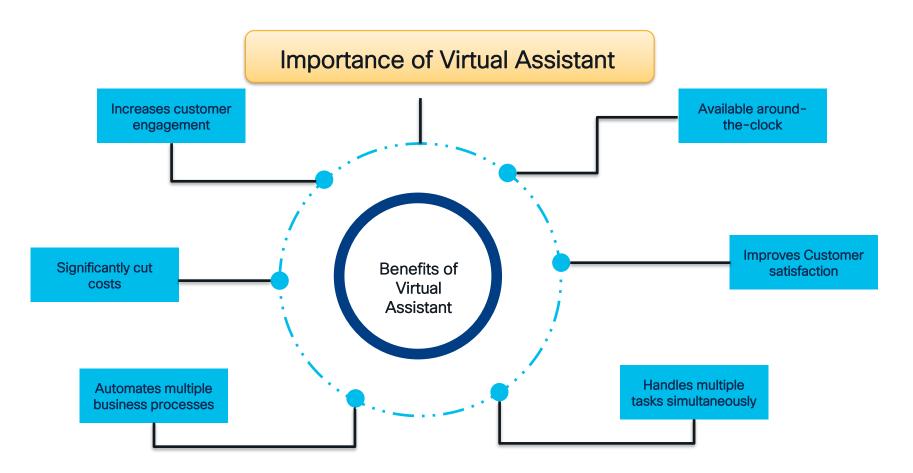


- Virtual Assistant- VA
- CX-Cloud Virtual Assistant
- Conversational VA FSO
- Knowledge sources & Empathy Generator
- Demo



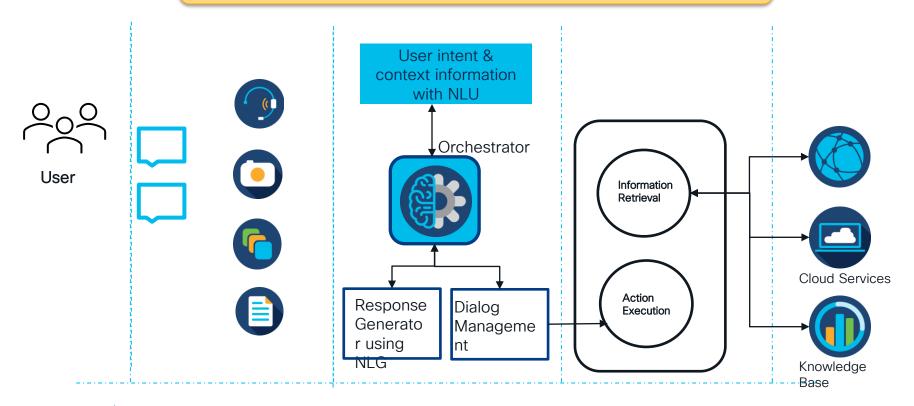
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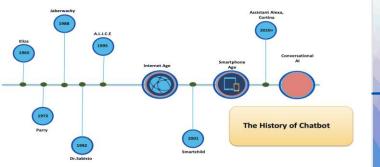


Basic Virtual Assistant Architecture





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Objectives of CX-Cloud Conversational Virtual Assistant Full Stack Observability

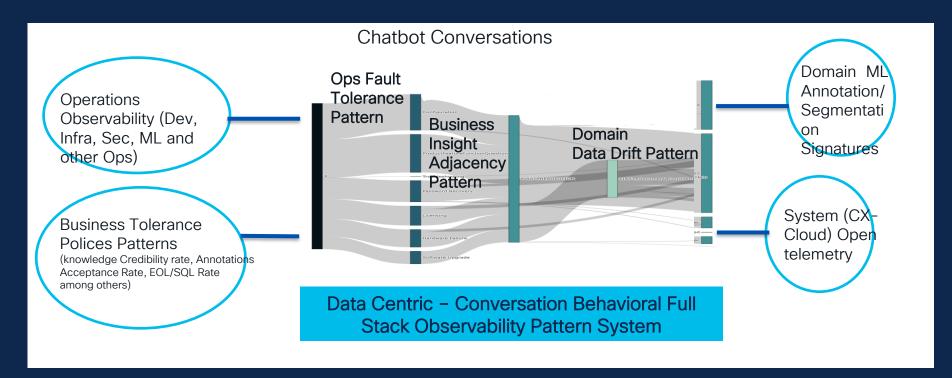
CX-Cloud VA is about

On time support & Improve Customer Experience

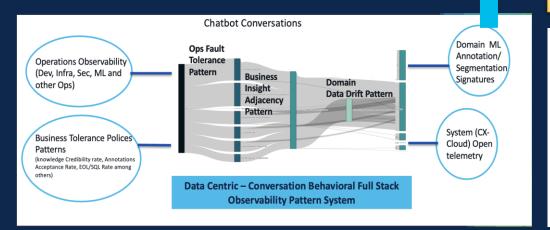
Improve Efficiency & Personalized Experiences

Consistency & accurate Response

Data Centric Conversational Behavioural FOS Pattern System







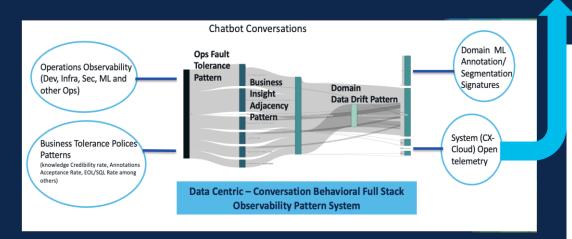
Domain ML Annotation

- Cisco Products, Services, Solutions
- Cisco Personas
- Cisco On-prem/Off Prem Tax

Data Threading through close proximity hierarchical relationship between the Taxonomies, Ontologies.



CX-Cloud Open Telemetry



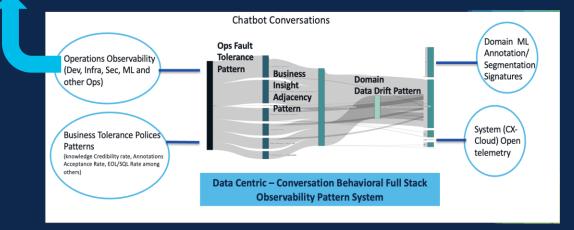
Extraction of Telemetry data from sources such as:

- Data Trace paths and hops.
- Interactions between different components and tools, sources of data generation Eg. metrics, logs, volumes, etc



Operations Observability

- Api
- Connects the Sales
- Finance
- Order
- Security (Accesses, Attempts etc)

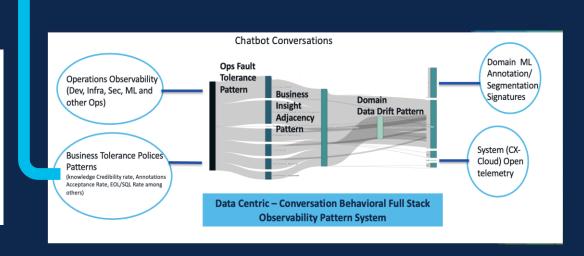


Operational Observabilities covers all the layers such as Development, Infrastructure, Security, Machine Learning and Operations, that drives the



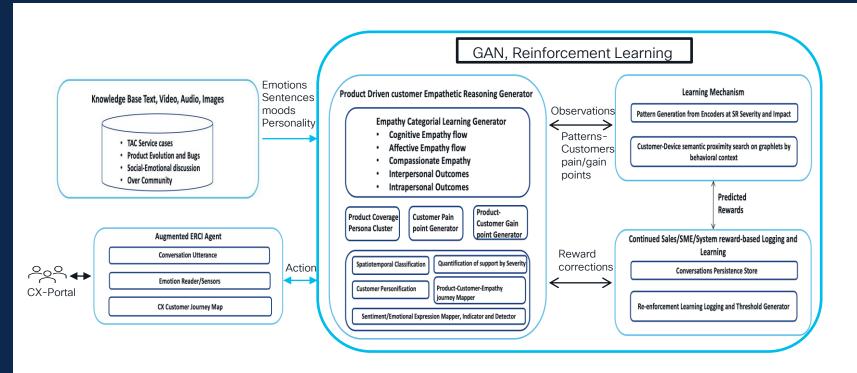
Business Tolerance Polices Patterns

- Golden rules,
- Rules driven processes
- Privacy Retentions,
- PII,
- Data Governance





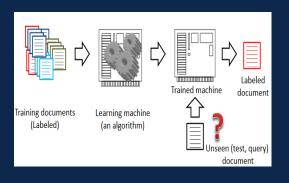
Conversational VA Domain Knowledge Mapping & Compassion Learning

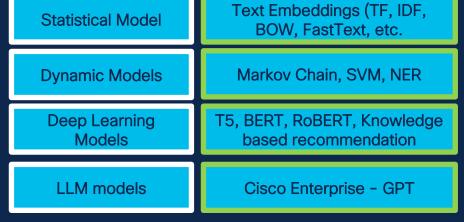


Sample Outcome of intermediate empathy map generator from Service Requests



Various Learning Strategies (Algorithms) using by Conversational VA







Demo



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Watch my session

Allie Brenner, Bruno Franca, & Sergei Pakhomov

Full Stack Observability – Monitoring and troubleshooting a sample application

LABCLD-1011



Thank you



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