



Enabling Smarter Power Distribution with DISCOM GPT

As part of our AMI programme, Apraava Energy piloted DISCOM GPT, an AI-enabled conversational platform designed to help utilities unlock the full value of smart meter data. Built on advanced analytics, machine learning, and large language models, the platform enables distribution companies to interact with complex datasets through intuitive, real-time queries, improving both decision-making and operational responsiveness.

DISCOM GPT enables accurate demand forecasting using time-series models and deep learning, allowing utilities to predict load patterns at feeder and sub-division levels, and plan energy procurement more effectively. At the same time, it supports transformer fault prediction through anomaly detection, helping identify high-risk assets early and shifting maintenance from reactive interventions to preventive action. The platform also enables customer segmentation using advanced algorithms, allowing DISCOMs to benchmark performance, design targeted interventions, and optimise tariff structures.

These capabilities are translating into tangible improvements at the distribution level. Smart meter-led insights are enhancing billing efficiency and revenue assurance, reducing bill disputes, enabling faster detection of losses and theft, and improving overall technical and commercial performance. In regions with high smart meter penetration, these efficiencies are beginning to flow through to consumers, as seen in Assam, where tariff reductions have already been realised.