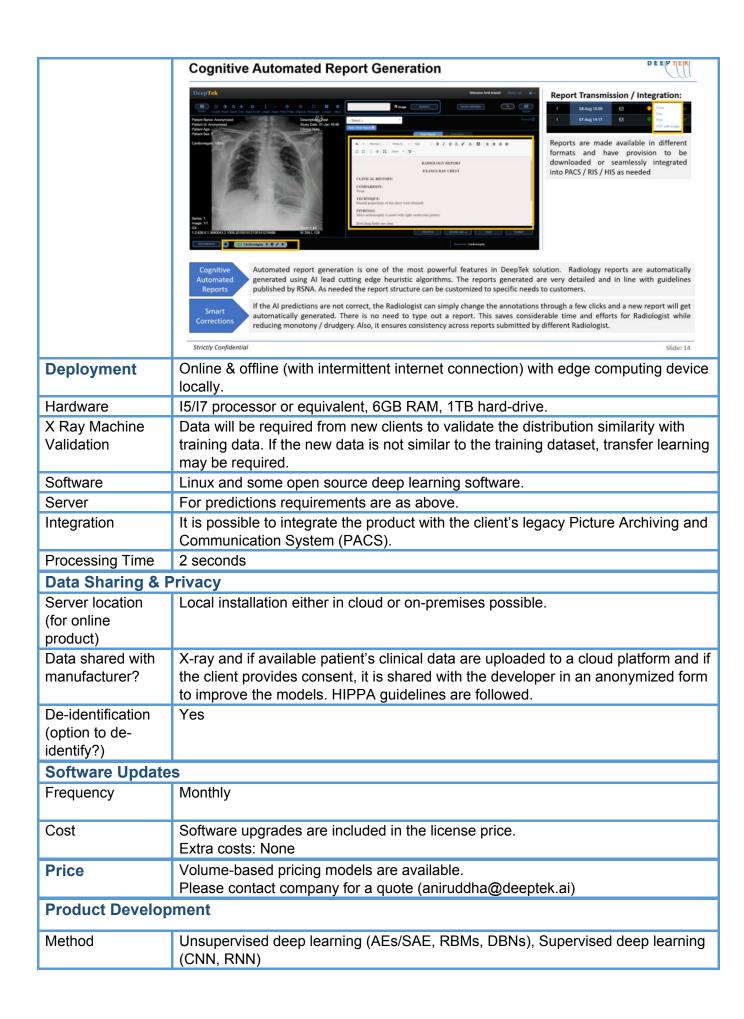
Product Profile: DeepTek Inc

Product name	DxTB
Company	DeepTek Inc
Company HQ	Delaware, US
Version	2
Website	https://www.deeptek.ai
Demo	Available upon request.
Last updated	April 14, 2020
Description	DxTB highlights regions of a chest x-ray that have specific abnormalities associated with TB and helps radiologists to prioritize and reduce their workload. DxTB is an adaptive system which evolves over time based on every new x-ray read in the field. DxTB also generates Radiological Society of North America (RSNA) standard Radiology reports automatically.
Certification	Stage of development: On the market. Certification: CE and FDA mark pending (expected Q2 2021).
Intended Age Group	14+ years
Target Setting	Primary health centres, General hospital (above primary level), Teleradiology companies, Government/public sector, e.g. national TB program, and Private sector. An automated solution or a Teleradiology-backed Al diagnosis and report is provided depending on the situation.
Current Market	India, Asia Pacific, and Africa. Future market (after CE/FDA certification): USA, Europe and Japan.
Input	Can be used to read images from any kind of chest X-ray machine. Chest X-ray image format: PNG, DICOM Chest X-ray type: Posterior-anterior chest X-ray, Anterior-posterior chest X-ray, Portable Other requirements: Other than dicom compatible image there are no other requirements.
Output	 Structured report including: Heat map, Probability score for TB, Probability score for the following pulmonary abnormalities: Abscess, Airfluid level, Atelectasis, Blunted costophrenic angle, Bronchiectasis, Calcification, Cavity, Consolidation, Fibrosis, Interstitial markings, Loculated pleural effusion, Lymphadenopathy, Mass, Nodule, Opacity, Pleural effusion, Prominence in hilar region, Pneumothorax, Tracheal shift, Granuloma, Calcified pleural plaques Location of certain abnormalities. Binary outputs using client-specific threshold scores.



Training	The product was trained on 500,000 chest X-rays from India, USA, China, and Malaysia.
Reference Standard	Human reader. Culture and GeneXpert based training will be conducted in the future.
Publications	Kulkarni, Viraj, Milind Kulkarni, and Aniruddha Pant. "Survey of Personalization Techniques for Federated Learning." arXiv preprint arXiv:2003.08673 (2020)