

JATIN LAMBA

Data Scientist – UnitedHealthGroup

[in LinkedIn](#) | [☎ 995-319-6917](tel:995-319-6917) | [✉ jatin_lamba@icloud.com](mailto:jatin_lamba@icloud.com)

Skills

- | Python | R | Tableau | Excel | VBA | SQL | Spark | MongoDB | Linux
- | Kubernetes | Databricks | Docker | Flask
- | Tensorflow | Torch | Torchserve | Bert | Numpy | Pandas | scikit-learn | Spacy | SonarLint
- | NLP | Computer Vision | Deep Learning | Neural Networks | Machine Learning | Time Series | Forecasting | LLM | Prompt Engineering
- Azure Services - | CI/CD | Cognitive Services | Kubernetes | Cosmos DB

Experiences

Data Scientist – Tech Lead | UnitedHealthGroup – Optum | 05/2021 – Present

As part of the Contract Intelligence Product team, I lead core initiatives in developing ML, DL and NLP based capabilities. My responsibilities involve developing end-to-end solutions for capability enhancement for the multiple business units in UHG.

- Leading the product development team in building a capability that digitizes tables in different kinds of documents into a knowledge graph.
- Responsible for developing and deploying machine learning models as products and services to identify and extract KPIs from PBM contract documents.
- Developed a document segmentation model which utilizes both OpenCV based image features and NLP meta features to identify objects in document images and classify them into different categories.
- Developed a semantic search engine on top of contracts to search and provide relevant results through mongo search and clustering.
- Filed 3 patents :
 - DigiSense | 03/2023: The complete end process achieves and brings together a completely generalized, vocabulary independent, document template agnostic method to extract and link key performance indicators.
 - LayoutSense | 10/2022: The novelty of the solution is in the usage of a combination of adjacency graph based vector representation of nodes and a Siamese network based classifier to extract and mine relationships between entities. The adjacency graph enables the representation of every entity in a spatially aware manner, as it is a combination of the node and connections on the graph.
 - TableSense | 05/2022: The novelty of the idea is the identification of separate pieces of a puzzle (Event, Sub Event, Metric, Value, Frequency) in a " jumbled sequence of text " - achieved by running a sequence to sequence type RNN model and then embedding the entities in a directed graph based on the position of the entity in the text to create one complete branch within a tree hierarchy (root (Event)-nodes (base KPIs)-leading to the last node of value).

Assistant Manager – Business Analytics | [Altruist Technologies](#) | 09/2019 – 04/2021

- Implemented business intelligence solutions and conducted advanced analytics to identify opportunities and strengths to meet business goals.
- Proposed and implemented outbound customer service strategies with customer risk scoring.
- Identified inefficiencies at the associate level and introduced KPIs to help improve productivity and performance.

ML Engineer | [Koireader Technologies](#) | 10/2018 – 09/2019

Developed a Logistic Product that:

- Used NLP, Computer Vision, and newest ML to extract information from pdfs.
- Extracted information from all kinds of pdfs to output information into required KPIs.
- Gave the information in a very readable format.

Education

- PGP in Business Analytics | Praxis Business School | 01/2018 – 11/2018 | 5.4 CQPI
- Actuarial Sciences | IFOA | 05/2016 – 09/2017 | CT1, CT2, CT3
- B.Sc. Mathematics (Hons) | Delhi University | 07/2013 – 05/2016 | 70%
- HSC (Science) | Welham Boys' School | 07/2011 – 04/2013 | 91%
- SSC | St. John's Sr. Sec. School | - 05/2011 | 9.4 CGPA

Projects

- Detection of Cheating in an Exam Hall | Cypher 2018 | Collected the data to train the Haar feature-based cascade classifier using OpenCV3. After training, the model gave an accuracy of 95%, which signifies that 95% of the times the camera in front of student will alert the invigilator correctly if the student is trying to cheat or not.
- Extraction of information from logistics/freight pdfs | Koireader
- Document Digitization | UHG

Achievements

- Filed 3 patents with my work in UnitedHealth Group
- Inventor Award for the work at UHG

Courses & Certifications

- ML Ops – Machine Learning Operations – Duke University – Dec 2023
- Generative AI with Large Language Models – DeepLearning.AI – Jan 2024
- Rust for Large Language Model Operations (LLMOps) – Duke University – Feb 2024

