

Best AI Specialists of the Year - John Snow Labs

USA



John Snow Labs is an artificial intelligence (AI) and natural language processing (NLP) company which provides state-of-the-art software, models, and data to help healthcare and life science organizations build and operate AI projects.

As the developer of Spark NLP, the world's most widely used NLP library in the enterprise, John Snow Labs' award-winning clinical NLP software powers leading healthcare and pharmaceutical companies including Roche, Kaiser Permanente, McKesson, Merck, and Novartis.

In 2020, John Snow Labs has seen a stunning 9x growth in the downloads of its Spark NLP library. The latest industry survey gives it a 33% market share across all enterprise NLP organizations, and a dominating 54% share in healthcare NLP.

The company is also the creator and host of The NLP Summit, who inaugural 2020 conference attracted 6,500+ attendees, further educating and advancing the global NLP community.

Best CTO of the Year - David Talby

USA



David Talby is the chief technology officer at John Snow Labs and the creator of Spark NLP.

He is a frequent speaker at industry conferences on the topics of applied artificial intelligence, natural language understanding, and machine learning. David is also a regular contributor for Forbes, O'Reilly, and others on these topics.

David has extensive experience in building and operating web-scale data science and business platforms, as well as building world-class, Agile, distributed teams. Previously, he was with Microsoft's Bing Group, where he led business operations for Bing Shopping in the US and Europe, and worked at Amazon both in Seattle and the UK, where he built and ran distributed teams that helped scaled its financial systems.

David holds a PhD in computer science and master's degrees in both computer science and business administration. He has co-authored over 30 academic papers and patents to date.

Spark NLP
State of the Art Natural Language Processing for Healthcare

Entity Recognition & Data Normalization
500 mg
Dosage: 500 | Unit: mg

Sentiment Analysis
nasty
Sentiment: Negative

Data normalization, Standard Coding
SOB
SNOMED-CT: 267036007 | Preferred Name: Dyspnea

Prescribing 500 mg azithromycin for nasty pneumonia w/o SOB.

POS tagging
Prescribing
Verb: to prescribe

Normalization for clinical drugs
azithromycin
Drug: azithromycin | RxNorm: CO732484

Spell checker
pneumonia
Suggested spelling: pneumonia

Negation
w/o
Scope: Negative