

SANTIAGO VELEZ CASTANEDA

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Solving hard questions with data, delivering business outcomes.

AREA OF EXPERTISE

- Data Science
- Deep Learning Sequential Models
- Natural Language Processing
- Machine Learning
- Python Data Science Stack
- Cloud ML & AI

PROFESSIONAL EXPERIENCE

Lead Data Scientist - Plural Policy, US

08/2022 – Present

Leading the application of ML in Public Policy data.

- Bill summarization service that uses LLM APIs (OpenAI GPT4, Anthropic Claude, etc.), LangChain, Prompt Engineering and internal resources to identify what changes are proposed to the current law.
- LM-powered search to identify, filter, and contextualize bills.
- RAG Chatbot for Public Policy discovery and Q&A.
- Policy topics extraction from unstructured text with pre-trained transformers and custom neural networks.
- Process, architecture, and strategy for applying ML in Public Policy.

Senior NLP Engineer - Definely, UK

04/2022 – 08/2022

- Entity extraction (contract type, parties, dates) from unstructured legal texts.

Cloud Solution Architect for Data & AI - MICROSOFT, Colombia

03/2020 – 08/2021

- Near Real-Time fraud detection in Telco with Torch and Kubernetes.
- Churn prediction with semantic and acoustic features extracted from calls recordings.

Senior Data Scientist - Globant, Colombia

04/2019 – 03/2020

- Automatic Code Documentation with Transformers in Torch.
- Semantic Search Engine for code with RNN and Language Models.

Data Scientist - IDATA, Colombia

09/2017 – 03/2019

- Led Data Science team in an Anomaly Detection government project with nationwide impact.
- Led deployment of three ML projects for a Colombian oil & gas company.

LANGUAGES

English - Proficient | Spanish - Native | Portuguese - Intermediate

TECHNICAL SKILLS

DATA SCIENCE: Python | R | SQL | Torch | Keras | Sklearn

SOFTWARE DEVELOPMENT: Azure | Linux | Git

EDUCATION

Specialization Analytics, Universidad Nacional, Medellin – Colombia, 2020

B.A. Marketing, Universidad de Medellín, Medellin – Colombia, 2017