



Daniel Gil

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Summary

Data Scientist and Software Engineer with 10+ years of work experience developing IT data-driven projects. My career can be described in three phases: First, I started my professional experience co-founding a startup for data capture automation deployed in AWS cloud under Software as a Service Model. The second phase was focused on delivering value from data analysis and business analytics to build better software products. Lastly, I am using data to build automated and intelligent solutions through machine learning algorithms to enable artificial intelligence capabilities in organizations.

Career History

Applications Developer at Accenture

Sep 2019 Present (5 months)

- Developed machine learning model experiments for projects' early cost prediction.
- Developed machine learning pipeline framework using MLFlow to track models and deploy to docker containers / generate artifacts for tensorflow js.
- Developed data model and python flask REST API backend for *Estimator app* to calculate project cost.

Research Community Coordinator, Natural Language Processing (NLP & Data Science) at University of Melbourne

May 2018 Present (1 year and 9 months)

- Led a community at Research Computing Services with 150+ graduate researchers helping to analyze large text datasets using python and natural language processing.
- Conducted workshops, trainings and meetups to discuss natural language processing
- Developed multimedia content to engage the research community.

Senior Business Analyst and Product Manager at Globant

Jan 2016 Jan 2018 (2 years)

- Led product definition with a distributed development team across Latin America and Spain for Mortgages and Loans at the OpenBank, the digital bank of Santander Group.
- Maintained a roadmap and backlog with Client stakeholders.
- Supported Jhonson & Jhonson Salesforce.com new internal features for Europe and Asia - Pacific (APAC).
- Led the offshore Business Analyst team for Southwest.com with development teams across the United States and Latin America.

- Analyzed different data sources to maintain a defect backlog to prioritize the work of 20+ developers

Lead Software Architect at Innobile Software

Jan 2013 Jan 2016 (3 years)

- Designed and developed the first on-cloud RFID enabled Warehouse Management System and inventory tracking built in Colombia introducing Software as a Service model.
- Implemented components in Amazon Web Services (AWS) with JavaEE, Android and .NET Mobile architecture.
- Led more than 20 projects for data capture automation for medium-large size companies and government agencies (Department of Defense).
- Developed a partnership with Zebra Technologies, local vendors and delivered company investors pitch, San Francisco, USA.

IT Manager at Comercializadora Ragged y Cia S.A / C.I. PHAX S.A. (Textile & Fashion Industry)

Nov 2009 Jan 2013 (3 years and 2 months)

- Led the Information Technology Strategic Plan and Execution Project (PETI) across 15 user leaders from all departments in the company.
- Performed Data Analysis and Business Process Analysis for the ERP Microsoft Dynamics AX implementation with Fashion & Textile Vertical.
- Implemented more than 7 additional technology projects to support business operations
- Implemented ITIL v3 for service improvement and COBIT (IT Governance)

Skills

Python, Machine Learning, Natural Language Processing, Statistical Modelling, Reinforcement Learning, Text Analysis, Time Series Analysis, Security Analytics, Adversarial Machine Learning, Cluster and Cloud Computing, Deep Learning, SQL, R, Spark, Docker, Linux, Agile Methodology, Scrum, Analytics, Data Warehouse.

Education

Master of Data Science from University of Melbourne, Australia

Graduated Feb 2020

Graduate Diploma of Information Systems Management from Universidad Católica del Oriente, Colombia

Graduated Sept 2009

Bachelor of Science (Computing) from Universidad Católica del Oriente, Colombia

Graduated Sept 2006

Projects

SEEK Ltd, Named Entity Recognition and extraction in Job Ads.

 Available on request

Named Entity Recognition (NER) in Job Ads to extract company names, skills and requirements using contextual character-based word embeddings and BiLSTM-CRF Neural Networks.

Security Analytics, Machine learning for anomaly detection.

 https://github.com/danielgil1/security_analytics

Machine Learning for Anomaly Detection in DDoS cybersecurity attacks and Security Analytics with Splunk.

Social Media Analytics & Cloud Computing, Scalable Machine Learning

 https://github.com/danielgil1/social_media_analytics

Social Media Analytics application using Ansible automated scripts to deploy and scale in the cloud automatically a cluster of NoSql databases (CouchDB), queue services (RabbitMQ) and bots that crawl twitter feeds to perform sentiment analysis and political views summarized through map reduce plotted in a geospatial environment.

Ticket Intent Extraction, Accenture Project X Bootcamp.

 Available on request

Helpdesk ticket extraction using Unsupervised Learning (LDA Topic Model and K-Means), exploratory analysis and pre-processing using NLTK and visualizing results with pyLDAvis. A Jupyter Notebook is available to run models, a Flask API and Web App can be run separately or hosted on Splunk. Docker image is also available.

Language Models and conversational interfaces, Presented at Research Bazar 2019, University of Melbourne.

 <https://github.com/danielgil1/hangman-resbaz>

Voice interaction for a hangman game AI with Amazon Alexa device using Language Models and AWS Lambda Functions.

Statistical Machine Learning, Missing Links prediction in Social network & Multi-armed bandits for Ads Optimization

 <https://danielgil1.github.io/machine-learning/>

Supervised learning, semi-supervised and active learning, unsupervised learning, kernel methods, probabilistic graphical models, classifier combination, neural networks. Reference

Mathematical Statistics

 <https://danielgil1.github.io/mathematical-statistics/>

diagnostics on

Basic statistical concepts including maximum likelihood, sufficiency, unbiased estimation, confidence intervals, hypothesis testing and significance levels. Estimation of model parameters, hypothesis testing using analysis of variance, model selection, model assumptions, and prediction considering computational techniques, including the EM algorithm, Bayes methods and Monte-Carlo methods.

Artificial Intelligence, Reinforcement Learning Agent for Pacman



<https://danielgil1.github.io/artificial-intelligence/>

Reinforcement Learning; Game Theory; Search algorithms and heuristic functions; Classical (AI), probabilistic and non-deterministic planning, Monte-carlo Tree Search.

Natural Language Processing and Search, Question - Answering System



<https://danielgil1.github.io/web-search-text-analysis>

Text classification algorithms such as logistic regression; vector space models for natural language semantics; structured prediction, Hidden Markov models; N-gram language modelling, including statistical estimation; alignment of parallel corpora, Term indexing, term weighting for information retrieval; query expansion and relevance feedback.
