Luis G. Chinchilla-Garcia

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Programming

Languages/Libraries & Frameworks

Primary: Python, SQL
Libraries: Tensorflow/Keras, PyTorch, Scikit-learn, Numpy, Pandas, Tensorflow Extended, Tensorflow Probability
Other: Git, LaTex, Linux, Bash, Docker, HTML, CSS, Javascript

Machine Learning

- Recommender Systems
- Natural Language Processing
- Variational Inference Models
- Reinforcement Learning Models
- Transfer-learning
- Ensemble Algorithms
- Transformer Models
- Approximate Inference Methods

Big Data / Data Bases

- Google Cloud Platform (GCP)
  - TensorFlow Extended
  - BigQuery/SQL
  - AI Platform
- Apache Beam/Spark
- Kubernetes/Kubeflow

Projects

Cognitio

Mathematics/Statistics/Machine Learning/Physics articles dedicated to explaining topics with a purpose to include fully reusable and accessible implementations of models - encouraging reproduction and explainability. It's vision for the future is to support user-written articles with user-friendly tools to create interactivity and reproducibility.

Links

Resume Website

luisgc2116.github.io/resume

LinkedIn

linkedin.com/in/luisgchinchilla-garcia

Congitio

https://luisgc2116.github.io/cognitio.io/

Experience

2020 ~ 2019

Red Bull Media House (Data Engineer)

- Design, develop, and research machine learning model architectures aimed at tackling collaborative filtering tasks.
- Develop and design machine learning end-to-end pipelines that support Tensorflow-based machine learning models (eg. using TensorFlow Extended).
- Design and create machine learning models with scalability at its core, from prototype to the deployment stage utilizing cloud computing services via Google Cloud Platform (eg. BigQuery, Dataflow, AI Platform).

2020 ~ 2019

Logos (Lead Machine Learning Engineer)

- Experimenting with model architectures based in collaborative filtering approaches that include reinforcement learning, restricted Boltzmann Machines, and Attention-based Models.
- Leading the data science team toward researching, developing & experimenting model architectures for Natural Language Processing problems, such as tranformer architectures.
- Utilizing reinforcement learning and approximate inference methods to fine-tune and transform transfer-learning models to have state-of-the-art results.

2018

SETI Research (Astrophysics Researcher)

- Research paper on analyzing possible technosignatures from the TRAPPIST-1 system using data gathered from the Green Bank Telescope. Paper: "A search for technosignatures from TRAPPIST-1, LHS 1140, and 10 planetary"
- Developed the data pipeline as part a team to transform and analyze to make inferences on the nature of candidate signals.

Education

2018 ~ 2014

University of California - Los Angeles

Bachelor of Science in Astrophysics

Completed 3 years of Astrophysical research with 2 research fellowships & 2 publications in the Astrophysical Journal & the American Astronomical Society(AAS) respectively.

Achievements:
Scholarship & fellowship from the Office of the Vice Provost for Undergraduate Education for excelling departmental research.Research paper on analyzing

2018

University of California - Berkeley

Business Certification

Business for Arts, Science & Engineering(BASE) summer certification program with courses in marketing, financial accounting & organizational behavior under the HAAS Business School.