

Contact

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Top Skills

People Management

Machine learning. Data analyst.
Software engineer. Computer
Science.

Machine Learning

Languages

English, Spanish, French, German

Patents

Optimizing application configurations
in a provider network

Model Based Selection of Network
Resources for which to Accelerate
Delivery

Lucia Castellanos

Science and Engineering Manager at Amazon
Seattle, Washington, United States

Experience

Amazon

3 years 9 months

Science and Engineering Manager
April 2020 - Present (3 years 9 months)

- + Hired and managed a team of fourteen people (scientists and machine learning software engineers) responsible for the design, development, and maintenance of machine learning infrastructure that supports end-to-end recommendation systems in the Ads organization at Amazon
- + Coordinated the team to build a set of Machine Learning systems that supports relevance and click-through-rate models for content retrieval and ranking in 10+ placements in Amazon search and product pages
- + Translated the business needs into technical requirements
- + Coordinated project execution and inter-team interactions (5+ teams)
- + Mentored team members on career growth, coordinated knowledge-sharing sessions, and established mechanisms to execute following Operational Excellence best practices

Senior Applied Scientist - Machine Learning
April 2021 - Present (2 years 9 months)

Amazon.com

Applied Research Scientist - Machine Learning
August 2018 - April 2021 (2 years 9 months)
Greater Seattle Area

- + Implemented of algorithms for sourcing and ranking ads in Amazon.com

Amazon Web Services (AWS)

Applied Research Scientist - Machine Learning
April 2016 - August 2018 (2 years 5 months)
Greater Seattle Area

- + Proposed and implemented models for demand forecasting for AWS data centers inventory
- + Implemented models for capacity planning for EC2 Spot instances
- + Proposed and evaluated dynamic pricing for EC2 Spot instances

Amazon

Software Development Engineer - Machine Learning

September 2013 - April 2016 (2 years 8 months)

Palo Alto, California

- + Prototyped resource optimization component in AWS EC2
- + Designed and implemented large scale machine learning technologies for accelerating browsing experience in the Silk browser

Carnegie Mellon University

PhD in Machine Learning

September 2006 - August 2013 (7 years)

Advisor: Rob Kass

- + Proposed models and efficient representations of grasping kinematics
- + Developed statistical methods for decoding grasping from spike trains measured in the primary motor cortex of primates

Illumina

Bioinformatics Intern

June 2011 - September 2011 (4 months)

- + Proposed, implemented and evaluated statistical models for variant recalibration using internally (Illumina) generated features that describe single-nucleotide polymorphisms
- + Evaluated the impact of a base calling post-processing module in variant calling using software packages like Gatk, Samtools, and Casava

Institut National de Recherche en Informatique et en Automatique,
France

Machine Learning Intern

May 2006 - September 2006 (5 months)

- + Researched variable selection in ensembles of neural networks in classification tasks

Banco Santander Serfin

Data Mining Analyst

January 2006 - May 2006 (5 months)

- + Applied clustering analysis on data of clients to understand their profiles, and target marketing strategies more accurately

Education

Carnegie Mellon University

PhD, Machine Learning · (2006 - 2013)

The University of Edinburgh

MSc, Informatics · (2004 - 2005)

Instituto Tecnológico Autónomo de México

BSc, Applied Mathematics · (1998 - 2004)