

# DEVESH AGARWAL



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A curious and entrepreneurial generalist with strong expertise in designing and implementing end-to-end ML and AI pipelines, I am driven by a passion for using technology to solve real-world challenges and create tangible business value.

## EXPERIENCE

### Thumbtack, Inc.

#### Member of Applied Science Staff

📅 Feb 2025-Present    🗺️ New York City, NY

- Building the team to automate **agentic micro-simulations** of a two-sided marketplace to model demand-supply cross-effects and enable low-deadweight coordination of marketing and supply-shaping.

### Equinix, Inc. | ML/AI Research

#### Machine Learning Engineer I, II (Technical Lead)

📅 May 2021 - Jan 2025    🗺️ New York City, NY

- Designed and fine-tuned a robust Retrieval Augmented Generation (RAG) LLM to build a unified dialogue agent for our data centers database, currently used by 100k+ stakeholders worldwide.
- Led a team of four to build full-stack computer vision algorithms for security and operations in 200+ data centers using CCTV and robots forecasted to cost-cut 10M\$.
- Responsible for Machine Learning Operations on a GCP-Airflow framework for a proprietary customer propensity model. Ranked #1 performing tool for sales operations.

#### Machine Learning Engineer Intern

📅 May 2020- May 2021    🗺️ San Francisco Bay Area

- Predicted customer churn using an ensemble of gradient boosting models (LGBM + XGBoost) and Recurrent Neural Networks impacting 10k+ companies' client accounts across 500k+ assets.

### LaunchPad AI

#### Co-Founder (Early Development)

📅 July 2024-Present    🗺️ New York City, NY

- Building a solution to enable automated application development for small and medium businesses using LLM-enabled infrastructure design and deployment.

### Visa, Inc. | Cybersecurity



#### Data Science Intern

📅 May 2019-August 2019    🗺️ San Francisco Bay Area

- Built a Scala-based pipeline for extraction of 800k+ Linux server logs daily using SparkSQL and 25M datapoints from Splunk and Kafka. Used by 600+ Cybersecurity employees.
- Automated anomaly detection in user access across internal servers using a peer grouping model. Saves 1200+ work hours per week for Cyber Investigations.

## EDUCATION

### Computer & Data Science

#### University of California, Berkeley

📅 May 2021    🗺️ Berkeley, CA

### Business Administration

#### Haas School of Business, Berkeley

📅 May 2021    🗺️ Berkeley, CA

### Sutardja Certificate

#### UC Berkeley, College of Engineering

📅 May 2021    🗺️ Berkeley, CA

## PROGRAMMING

Languages    Python | Java | Scala | SQL

Modules    PyTorch | Keras | TF | OpenCV

Data    Hadoop | Spark | Splunk | Tableau

MLOps    GCP | Azure | Airflow

GenAI    HuggingFace | Llama | OpenAI

## COURSEWORK

Advanced Machine Learning

Decision Theory    Consumer Behavior

Artificial Intelligence

Machine Structures/ Architecture

Data Structures and Algorithms

Advanced Probability    Computer Vision

Intro to Data Science (Teaching 4x)

## PROJECTS

### EthiCar, Self-Driving Prototype

Built a car that detects traffic signs, pedestrians, or animals and makes ethical decisions.

### SETI Research Institute

Analyzed sound waves from space to try to detect alien communication.

### Design for Equity Lab

Studied gamified pedagogy to determine most effective and equitable teaching techniques.