



# Girish Gupta

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## **Chief Technology Officer, Deepnews**

*April 2020 –*

- Lead technology and work with founders on strategy and finances. Building a business to score journalistic writing based on reporting quality, not sentiment or emotion.
- Rebuilt system and machine learning architectures which hugely improved efficiency and accuracy.
- Evolved NLP model from convolutional to recurrent to transformer-based network.
- Built software to parse, score and rapidly query hundreds of thousands of articles per day, an SSE-based website to show scoring and an API. (GCP, Python, Tensorflow, PyTorch, PHP, MySQL)

## **Head of Data Science, IDFC Institute**

*May 2019 – May 2020*

- Created a broadly-skilled data science unit at the public policy non-profit—funded largely by Rockefeller, Gates and Ford foundations. Liaised with funders, government officials and academics.
- Data science team conducted and published research, built platforms and advised government on urban mobility, open-source mapping, privacy/data governance and COVID-19.

## **Founder/Chief Executive Officer, Data Drum, Inc.**

*May 2018 – April 2020*

- Created a U.S. corporation and platform providing automated, clean and elegant economic data, the idea being to make public data accessible to the public.
- Led developers, economists and regional experts. Met with potential customers and investors.
- Created database architecture (MySQL, PHP) and website. Managed mobile apps (React Native), API (Python), Google Sheets and Microsoft Excel add-ins (JavaScript; highlighted at Microsoft developers' conferences) and data acquisition (PHP, Python).

## **Creator, Venezuela Econ (absorbed into Data Drum, Inc.)**

*December 2014 – April 2018*

- Created the go-to data platform on one of the world's most opaque countries, used by thousands of people including politicians, investors and journalists.
- Wrote iOS/WatchOS (Swift), Android (Java) and web apps, as well as an API (PHP).

## **Senior Correspondent, Reuters**

*June 2015 – May 2018*

- Produced groundbreaking investigations, including showing that the results of a national Venezuelan election were fabricated; secrets about the country's military, including surface-to-air missile inventories and lists of soldiers arrested for treason and rebellion; that the country's Chief Justice was arrested on suspicion of murder; and multi-billion dollar corruption at Venezuela's state oil company.
- Produced text, photos and TV on Venezuela's hyperinflation, social decay, food riots and protests.
- Reported in Iraq and Afghanistan, as well as across the Americas.
- Wrote software to automate story-writing, data-gathering and admin.
- Coordinated on-the-ground and digital security in an extremely hostile environment.

**Freelance foreign correspondent**, *Reuters*, *New Yorker*, *New York Times*, *TIME*, *Financial Times*, *NPR*, *BBC*...

October 2010 – May 2015

- Produced text, photos, video and radio in Venezuela, as well as Brazil, Colombia, Cuba, Ecuador, Egypt, Guyana, Jordan, Lebanon, Peru, and Mexico, for more than 40 major news outlets.
  - Covered the cancer, election and death of Venezuela's Hugo Chávez, the messy transition to Nicolás Maduro's rule and the crisis that followed, including daily violent unrest.
  - Investigated diamond smuggling from illegal jungle mines in the Amazon, Glencore profiting from a Colombian paramilitary massacre and killing of wildcat gold miners linked to a multinational there.
  - Conducted on-the-ground investigations for *Control Risks*, *K2 Intelligence* and *Ergo* across the region.
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**Physics (Master's/MPhys) at University of Manchester**

September 2006 – June 2010

- Abstract to Master's project—a computer simulation (C) of the heart exploring atrial fibrillation—published in the *Proceedings of The Physiological Society*.
- Bachelor's project on negative index of refraction; first year essay on the physics of music.
- Officer Cadet, *MSUOTC*. First aid, weapon handling, drill, leadership, fieldcraft and military tactics.

**Natural Sciences (Math, Physics, Chemistry, Geology) at King's College, Cambridge University**

September 2005 – June 2006

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Courses:        Computer Science for Artificial Intelligence expected in 2021 *Harvard/edX*  
                  Natural Language Processing Specialization expected in 2021 *deeplearning.ai/Coursera*  
                  Deep Learning Specialization 2020 *deeplearning.ai/Coursera*  
                  Hostile Environment Training 2015 *Hawthorne/Reuters*  
                  Surviving Hostile Regions 2012 *AKE/Rory Peck*  
                  Military Training Qualification 1 2007 *Officers' Training Corp/British Army*

Side-Projects: According to Documents 2020 Highlight document-based investigative reporting.  
                  Readwise2Roam 2020 Convert *Readwise* book and article highlights to *Roam* notes.  
                  GlobalOTP 2019- Forward text messages to email.  
                  Music Goes On 2000-1 Music website listed by *MTV* as one of the web's top 20 sources.

Code:            C, C++, Java, Swift, PHP, Python, R, MATLAB, SQL, HTML, JavaScript, CSS.

Server:         AWS (Lightsail, EC2, RDS, SES, Route 53).  
                  GCP (Compute Engine, App Engine, Cloud Run, Cloud SQL, FireStore).

Languages:    English, Spanish, Hindi/Urdu, basic French and basic Arabic.

Interests: Science, math and their history. Health and fitness. Photography. Travel. Music.

Online: Website, Twitter, LinkedIn, GitHub, AngelList.