



# Girish Gupta

girishgupta.com | girish@girishgupta.com

## Work Experience

### **Chief Technology Officer, Deepnews**

*April 2020 –*

- Led tech as well as aided business strategy with founders.
- Created new system and machine learning architectures, hugely increasing efficiency and accuracy.
- Led building of natural language processing algorithms using word embeddings, convolutional neural networks, recurrent neural networks, transformers, etc.
- Built a streaming service to parse, score and store hundreds of thousands of articles every day, queryable in small fractions of a second.

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

*May 2019 – May 2020*

- Created a solid, broadly-skilled data science unit at a public policy non-profit think/do tank—funded in large part by the Rockefeller, Gates and Ford Foundations.
- That team conducted and published research, built platforms and advised government on urban mobility, open-source mapping, privacy/data governance and COVID-19.
- Liaised with U.S. funders, senior Indian officials and academics.

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

*May 2018 – April 2020*

- Created a U.S. C corporation and platform providing automated, clean and elegant economic data. Held fully automated figures on half a dozen countries.
- Led developers, economists and regional experts. Met with potential customers and investors.
- Created backend databases and website. Managed mobile apps, API, Google Sheets and Microsoft Excel add-ins (highlighted at Microsoft developers' conferences) and data acquisition.

### **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.
- Wrote iOS/WatchOS, Android and web apps, as well as an API.

### **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 high-level, 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*.

**Officer Cadet**, *Manchester and Salford Universities Officers' Training Corps (British Army)*

*September 2007 – July 2008*

- Training in first aid, weapon handling, drill, leadership, fieldcraft and military tactics.

**Creator**, *Music Goes On, Ltd., England*

*May 2000 – November 2001*

- Built a music [website](#) listed by MTV as one of the web's top 20 sources.

---

### **Formal Education**

**Physics (Master's/MPhys)** at *University of Manchester*

*September 2006 – June 2010*

- Abstract to Master's project—a computer simulation (in 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.

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

*September 2005 – June 2006*

---

Courses:     [Computer Science for Artificial Intelligence](#) 2021 *Harvard/edX*  
                  [Natural Language Processing Specialization](#) 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. PHP, Firestore, Twilio, Stripe.

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 Arabic.

Interests:     Science, math and their history. Health and fitness. [Photography](#). Travel. Music.

Online:         [Website](#), [Twitter](#), [LinkedIn](#), [GitHub](#), [Angellist](#).