



# Girish Gupta

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## Founding Full-Stack Software Engineer, Subcity

November 2021 –

## Author, Always Go

March 2021 – October 2021

## Chief Technology Officer, Deepnews

April 2020 – March 2021

- Led technology to score journalistic writing based on reporting quality.
- Rebuilt system and machine learning architectures which hugely improved efficiency, usability, and accuracy. Evolved NLP model from convolutional to transformer network.
- Built software to parse, score, and 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.
- Team conducted and published research, built platforms, created interactives, 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 providing automated, clean, and elegantly-presented economic data, in order to make public data accessible. Failed to gain revenue.
- Led developers, economists and regional experts. Met with *potential* customers and investors.
- Created backend 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.
- Wrote iOS/WatchOS (Swift), Android (Java), and web apps, as well as an API (PHP).

## Senior Correspondent, Reuters

June 2015 – May 2018

- Produced major 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 some 50 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, a Colombian paramilitary massacre and the killing of wildcat gold miners there.
  - Conducted on-the-ground investigations for *Control Risks*, *K2 Intelligence*, and *Ergo*.
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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.
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**Natural Sciences (Math, Physics, Chemistry, Geology)** at *King's College, Cambridge University*

*September 2005 – June 2006*

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Courses: [Founder, First 50 and Writer fellowships](#) 2020/1 *On Deck*

[Introduction to Computer Science](#) 2020 *Harvard/edX*

[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: [Math for Journalists](#) 2021 Very quick iOS app to help journalists with basic math.

[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, Ruby, R, MATLAB, SQL, HTML, JavaScript, CSS.

Cloud: AWS (Lightsail, EC2, RDS, SES, Route 53).  
GCP (Compute Engine, App Engine, Cloud Run, Kubernetes Engine, Cloud SQL, Firestore).  
Heroku.

Frameworks: Rails, Flask, React

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](#).