Girish Gupta

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Founding Full-Stack Software Engineer, *Subcity*
November 2021 –
- First hire at a well-run, mission-driven startup—funded by Homebrew, BoxGroup, Slauson, et al.—which helps small businesses tap into government subsidies that all too often go unclaimed.
- Work with founders on strategy, product, business, etc.
- Ruby on Rails, React. PostgreSQL. AWS.

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 ETL pipeline, including backend architecture (MySQL, PHP) and website. Managed mobile apps (React Native), API (Node.js/Express.js, 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*.

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

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 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: Amazon Web Services
                     Lightsail, EC2, RDS, SES, Route 53
               Google Cloud Platform
                     Compute Engine, App Engine, Cloud Run, Cloud Build, Cloud SQL
               Google Firebase
                     Authentication, Realtime Database, App Analytics, 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.