

# ANSHUL GUPTA

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## WORK EXPERIENCE

### Entrepreneur First

#### Founder in Residence

Feb '21 — Present

Bangalore, India

- Using computer vision to increase success rates of In Vitro Fertilization (IVF)
- Hypothesis validation and customer development for the product
- Focus:** Entrepreneurship, Healthcare, Computer Vision

### Samsung R&D Institute India — Bangalore

#### Senior Software Engineer

Jul '19 — Jan '21

Bangalore, India

- Super Resolution for 3D Ultrasound images of fetal face
- Follicle Growth Tracking in ovaries using 3D Ultrasound Scans
- Identity network based on UNet model for medical images to be used as a better initialization for transfer learning
- Focus:** Medical Imaging, Computer Vision

## INTERNSHIPS

### Google Summer of Code 2017 (The Linux Foundation)

#### Common Print Dialog

Jun '17 — Aug '17

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- Designed and build a unified solution for printing in desktop environments
- Focus:** C++, Qt, Dbus

### École Normale Supérieure de Lyon (INRIA)

#### Towards more scalable off-line simulation of MPI applications

May '14 — Jul '14

Lyon, France



- Developed a framework for scalable time-independent trace replay for off-line simulation of MPI applications
- Focus:** R, MPI, C++

### Indraprastha Institute of Information Technology, Delhi

#### Performance analysis and Optimization of Hadoop based cluster

May '13 — Jul '13

New Delhi, India

- Analyzed the effect of various configuration parameters on Hadoop performance under various conditions to achieve maximum throughput
- Focus:** Hadoop

## EDUCATION

### IIT Bombay

#### M.Tech. in Computer Science & Engineering

Jul '16 — Jun '19

### LNMIIT, Jaipur

#### B.Tech. in Computer Science & Engineering

Jul '11 — May '15

## PROJECTS

### Face Detection using Faster R-CNN

- OBJECTIVE** — Draw bounding box on all the faces in an image

- Focus:** Python, Image Processing

### ASSR: Automatic Stuttered Speech Recognition

- OBJECTIVE** — Enable people having a stuttering speech impediment to use the current state-of-the-art speech-to-text systems

- Focus:** Python, Audio Processing

### Machine Learning approach for Music Genre Classification

- OBJECTIVE** — Classify music into different categories: Rock, Hip Hop, Jazz, Blues, etc.

- Focus:** Python, Audio Processing

### Resource Provisioning of LXD Containers

- OBJECTIVE** — Prevent memory SLA violations in LXD based containers

- Focus:** Python, LXD Containers, Auto-Scaling

## PUBLICATIONS

### Journal Articles

- Casanova, Henri, Anshul Gupta, and Frédéric Suter (2015). "Toward more scalable off-line simulations of MPI applications". In: *Parallel Processing Letters* 25.03, p. 1541002.

### Conference Proceedings

- Apte, Varsha et al. (2017). "AutoPerf: Automated load testing and resource usage profiling of multi-tier internet applications". In: *Proceedings of the 8th ACM/SPEC on International Conference on Performance Engineering*, pp. 115–126.
- Bansal, Garvit et al. (2014). "A framework for performance analysis and tuning in hadoop based clusters". In: *Smarter Planet and Big Data Analytics Workshop (SPBDA 2014), held in conjunction with International Conference on Distributed Computing and Networking (ICDCN 2014), Coimbatore, INDIA*.

## AREAS OF INTEREST

Computer Vision

Medical Imaging