

Sharad Chitlangia

<http://sharad24.github.io>
sharadchitlangia24sc@gmail.com | +91 98922 19249

EDUCATION

BITS PILANI

B.E. IN ELECTRONICS AND
 INSTRUMENTATION ENGINEERING
 Expected May 2021 | Goa, India
 Cum. GPA: 7.9

R.N. PODAR SCHOOL

Grad. May 2017 | Mumbai, India Grade
 XII | CBSE
 Score: 431/500 (86.4%)

LILAVATIBAI PODAR SCHOOL

Grad. May 2015 | Mumbai, India Grade
 X | ICSE
 Score: 567/600 (94.5%)

LINKS

Github:// [Sharad24](#)
 LinkedIn:// [sharadchitlangia](#)
 Twitter:// [sharad24sc](#)
 Scholar:// [sharadchitlangia](#)

VOLUNTEER WORK

- Deep Learning | Course Instructor
- Galaxy Classification using Neural Networks | Guide and Mentor
- Reinforcement Learning | Course Instructor
- Language Research Group | Mentor and Member

SKILLS

Languages Python, C++, Java, Julia, Shell

Technologies Git, \LaTeX , Heroku, AWS, GCP, Git, Travis CI

Frameworks Pytorch, Tensorflow

AWARDS

Bounty Prize Winner - 500\$
 Hack InOut

OTHER EXPERIENCES

- President | Society for Artificial Intelligence and Deep Learning (<http://saidl.in>)
- Panel Coordinator - Programmer's Inc | Quark 2020
- Intel AI Student Ambassador

EXPERIENCE

HARVARD UNIVERSITY | EDGE COMPUTING LAB

JUNE 2019 - AUGUST 2019 | VISING UNDERGRADUATE RESEARCH INTERN
 Cambridge, MA, USA

- Worked at the intersection of energy efficiency and Deep Reinforcement Learning for Energy Constrained UAV like devices.
- Accelerating RL algorithms for deployment. All experiments in QuaRL (>350) in Tensorflow and TFLite.
- Demonstrated how Quantization acts as a better regularizer than layer-norm, batch-norm, etc

GOOGLE SUMMER OF CODE | CERN-HSF

MAY 2019 - AUGUST 2019 | REMOTE INTERN

- Developing and Porting of 3 Track Reconstruction Algorithms exposed in TrackML Competition into ACTS Framework
- Added an example of running Pytorch models in ACTS using Pytorch's C++ frontend libtorch.

UNFOUND.AI

MAY 2018 - AUGUST 2018 | MACHINE LEARNING INTERN
 Mumbai, India

- Improved Information Retrieval System by incorporating techniques which focused more on semantics.
- Trained embeddings(ELMO) from a deep learning based model which could capture Semantic, Syntactic as well as Contextual information.
- Training stance detection models(ESIM) to detect if two pieces of articles have the same view points regarding a particular topic.

PUBLICATIONS

• QUANTIZED REINFORCEMENT LEARNING - QUARL

Srivatsan Krishnan*, Sharad Chitlangia*, Max Lam*, Zishen Wan, Aleksandra Faust, Vijay Janapa Reddi
 Under review.

SELECTED PROJECTS

- **Spiking Neural Networks** | Report
- **Neural Voice Cloning with Few Samples** | Code
- **Autonomous Drone Navigation using Deep Reinforcement Learning** | Project Lead | Funded Project | Code
- **Particle Track Reconstruction using ML** | Code, Report
- **Epileptic Seizure detection using Deep Learning** | Code, Report
- **Human Swarm Intelligence for Reconnaissance** | Official Collaboration with Defence Research and Development Organisation, Govt. of India

COURSEWORK

Machine Learning*, Neural Networks and Fuzzy Logic*, Data Mining*, Probability and Statistics, Digital Image Processing, Digital Signal Processing, Microprocessors and Interfacing, Digital Design, Stanford's CS231n@, UCB's CS295@, Stanford's CS224n@, Stanford's CS229@. (* = Auditing, @ = Online)