

# Aryaman Jeendgar

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Graduate Technical Intern at Intel Labs  
and Student Developer at CVXPY

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A Third-year undergraduate from BITS Pilani, double majoring in Physics and Electronics and Communications Engineering with a keen interest in mathematically-driven research and engineering robust ML systems.

Personal webpage: <https://aryamanjeendgar.github.io/>

## EDUCATION

**Masters in Physics and Bachelors of Engineering in Electronics and Communications Engineering**, *Birla Institute of Technology and Science*  
AUG 2019 — PRESENT

## SKILLS

<b>Tools and Languages</b>	Python, C++, Numpy, scikit-learn, Pytorch, Git, emacs, $\text{\LaTeX}$
<b>Research Interests</b>	Convex Optimization, Statistical Learning Theory, Deep Learning Theory, Online Optimization, Reinforcement Learning, Causal Inference, Bayesian analysis

## PAST RESEARCH/INTERNS(S)

<b>Graduate Technical Intern</b> <i>Intel Labs</i>	<b>JUNE 2022 — PRESENT</b> <i>Bangalore, Karnataka</i>
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- Interning in the *Cloud Systems Research Lab*
- Working on Scaling-Out the *VDMS* database

<b>Student Developer @ CVXPY</b> <i>Google Summer of Code</i>	<b>MAY 2022 — PRESENT</b> <i>Remote</i>
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- Implementing a series of powerful approximation methods *Relative-Entropy Conic* constraints which were suggested in [this paper](#) within *CVXPY*

<b>LogGENE: A smooth alternative to the check loss</b> <i>BITS Pilani</i>	<b>AUG 2021 — FEB 2022</b> <i>Goa Campus, Dept. of CS</i>
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*Code, Pre-Print, Currently under review in SIMODS*  
*Under Prof. Snehanshu Saha & Mr. Soma S. Dhavala*

- Developed a novel Quantile Regression based framework around our proposed loss function in the Deep Learning setting
- Offered applications to higher-order methods leveraging the above theoretical framework, suggesting a possible interplay between quantiles and higher-order analysis in neural networks
- Rigorously adapted our proposed regression loss to the binary classification setting, and saw favourable results against baseline (binary) Cross-Entropy.
- Used the Gene Expression problem as a test-bed for validating our theory
- End-to-end planned and wrote the code for most of the experiments that we conducted (used PyTorch as our major driver), and contributed significantly to the theoretical framework and proofs.

<b>NLP intern @ Swecha</b> <i>Swecha</i> <i>Code</i>	<b>MAY 2021 — JULY 2021</b> <i>Gachibowli, Telangana</i>
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- Worked on a Fake News Detection system for the Indian Context
- Partially constructed a fake news dataset for the same by scraping large volumes of data from relevantly tagged websites
- Dealt with Apache Solr and used its inverted index search for creating a fast search solution for the system.
- Came up with and implemented a heuristic-based NLP system for fake news detection.

## MISCELLANEOUS

- Have written reviews under a professor for papers pushed to **ICLR '22** and **ICML '22**