

Yash Akhauri

Blog | GitHub | LinkedIn | Gmail | +91 78915 12802

EDUCATION

BITS PILANI | B.E. IN ELECTRONICS AND INSTRUMENTATION

Aug 2016 - May 2020 | RJ, India

EXPERIENCE

XILINX RESEARCH | RESEARCH INTERN

Aug 2019 - Jan 2020 | Dublin, Ireland

- To optimize several variants of Quantized Neural Networks on Xilinx FPGAs.

WOLFRAM | MENTOR

June 2019 - July 2019 | Waltham, Massachusetts

- Acting as a mentor and teaching assistant for the Wolfram Summer School and Wolfram High-School camps, specializing in Artificial Intelligence.

MORPHIN | RESEARCH INTERN

Jan 2019 - Present | France (Remote)

- Working on neural network weight-sharing strategies, semantic segmentation models for face transfer across GIFs and porting TF models to TensorRT to generate high-performance run-time engines for deployment.

WOLFRAM | UNDERGRADUATE RESEARCHER

June 2018 - July 2018 | Waltham, Massachusetts

- Developed HadaNet MLPs in the Wolfram Language and worked on optimized C OpenMP kernels for GEMM and Convolutions using the Hadamard Binarization methodology. [[OpenMP kernel](#)] | [[CUDA kernel](#)]. [[Whitepaper](#)]

PUBLICATIONS & GRANTS

HADANETS: FLEXIBLE QUANTIZATION STRATEGIES FOR NEURAL NETWORKS [[Link](#)]

CALIFORNIA | JUN 2019

Paper accepted at CVPR'19 UAVision workshop - Orals.

Delivering a "Theatre Talk" at the Intel Demo Booth at CVPR'19.

WOLFRAM TECHNOLOGY CONFERENCE – SPEAKER

CHAMPAIGN, IL | OCT. 2018

Delievered a talk on my research on Hadamard Neural Networks.

INTEL AI MEETUP – SPEAKER [[pptx](#)]

DELHI, IN | SEPT. 2018

Spoke about my research on scaling AI using Intel techonologies. This event was organized by Intel.

INTEL AI ACADEMY SUCCESS STORY [[Link](#)]

Intel published a cover story of my research done in the field of Quantized Neural Networks.

INTEL AI DEVCON – POSTER

SAN FRANCISCO, BANGALORE | MAY & AUG 2018

Presented posters on quantized GEMM kernels for Intel Xeon Phi

INTEL NERVANA EARLY INNOVATORS GRANT

\$5000

Received research grant to develop Binary Precision Neural Networks and Real time Artistic Style Transfer. The technical article can be found [[here.](#)] The code can be found [[here.](#)]

INTEL CVPR TRAVEL GRANT

\$2500

Received a travel grant from Intel to present at the Intel Demo Booth at CVPR'19.

WOLFRAM STUDENT AID

\$2400

Received aid to attend the Wolfram Summer School and develop Hadamard Binary Neural Networks.

KVPY SCHOLAR

Selected as a KVPY scholar by the Department of Science and Technology, Government of India.