

Anand Ravishankar

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EDUCATION

Visvesvaraya Technological University

Bachelor of Engineering in Electronics and Communications

Aug. 2017 – Aug 2021

Banglore, KA

- **Coursework:** Machine Learning, Artificial Intelligence, Neural Networks, Pattern Recognition, Digital Image Processing

- CGPA: 8.64 **Degree Class:** First Class with Distinction

EXPERIENCE

Amazon Web Services

Cloud Engineer in AIML team

July. 2021 – Present

Banglore, India

- Working on speech and text synthesis/diagnosis tools like Amamzon Comprehend, Sagemaker and Polly
- Helping customers on-board onto the ML offerings of AWS and design their cloud architecture accordingly

Amazon Web Services

Cloud Associate Intern, Big Data team

March 2021 – July. 2021

Banglore, India

- Worked on the automating compute clusters replication
- Collaborated with senior engineers with focus on Sagemaker and DynamoDB
- Learnt web scripting tools like GreaseMonkey and thier integration with core AWS services

Department of AIML, BMSIT, VTU

Undergraduate Research Student

July 2019 – July. 2021

Banglore, India

- Team member: Funded research project from Vision Group of Science and Technology, Govt of Karnataka
- As a part of an interdisciplinary research group, trained and worked extensively on High Performance Accelerated computing clusters
- Aided and collaborated in multiple research problems with a focus on sustainability and social goodness of the use of AI in the following major fields:
 - * Digital Health and Oncology
 - * Reinforcement Learning (DRL)

Publications

Pruned Genetic-NAS on GPU Accelerator Platforms with Chaos-on-Edge Hyperparameters

Sept. 2021

- Created a novel DNN design search space method based on evolutionary algorithms and accelerated it on a Tesla V100 GPU
- Accepted at IEEE 2021 International Conference on Machine Learning and Applications (ICMLA), Pasadena, CA, November 2021

SparseMAX: Accelerating Quantum Neural Networks on GPU Clusters using SpMM

July. 2021

- Introduced a quantum-version of the traditional neuron, **Quantron**
- Created a **Quantron** based Sparse Neural Network and accelerated it on the VEGA HPC cluster with 4 Tesla V100 GPUs
- Presented at International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation 2021 (SAMOS XXI), Greece, July 2021

Projects

Bench-marking AWS Comprehend's extraction and categorization capabilities for classifieds advertisements

- Project aim is to provide feedback to the development team with solid results
- Sub-undertakings include comparing it with NLTK and SpaCy in word tokenization, POS-tagging and sentence tokenization

TECHNICAL SKILLS

Languages: Python, C, C++

Technologies/Frameworks/Libraries: OpenCL, Linux, GitHub, Tensorflow, Keras, PyTorch, CUDA, cuDNN