

Shreenivas Bharadwaj

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EDUCATION

UCSD

University of California San Diego
MS IN COMPUTER SCIENCE
2018- | California, USA

NIT, TRICHY

National Institute of Technology
B.TECH. IN COMPUTER SCIENCE
2014-2018 | Tamilnadu, India

LINKS

Github: [shreenibhar](#)
Gmail: [vshreenivasbharadwaj](#)

COURSEWORK

UNDERGRADUATE

Artificial Intelligence
Machine Learning
Data Warehouse and Data Mining
Design and Analysis of Parallel algorithms
Data Structures and Algorithms
Database Management Systems
Operating Systems
Computer Networks

SKILLS

PROGRAMMING

Frequent usage:
•C/C++ •Python •Android-Java •Cuda
•Matlab • \LaTeX •Tensorflow •Pytorch
Occasional usage:
•HTML •CSS •Javascript •Jquery
•MySQL •Bash
Familiar usage:
•Django

SOCIETIES

2015-18 **Delta** Web-ops team, NITT

AWARDS

- All India Senior Secondary Examination, 2014, Total: 482/500, Top 1 %
- Best Student Paper Award, Vortex, NIT Trichy
- AISSE School 1st in Physics and CS, 2nd in Math

EXPERIENCE

AMAZON

Summer Internship (May'17 – July'17)

- Created a utility service in Kindle Digital Commerce Platform using Java, Coral framework and Spring.
- Handled tickets related to the service.

RESEARCH

HIGH PERFORMANCE COMPUTING WITH GPUS, IIT DELHI

Acceleration of Vector Auto Regression (July'17 - Dec'17)

- Achieved 650x speedup over the regular CPU code performance in granger analysis of fMRI data.
- Implemented in Nvidia CUDA platform.

NETWORKING OPTIMIZATION, NIT TRICHY

MAC layer optimization, Network Lab (July'16 – Dec'16)

- Optimized the MAC 802.11 wireless network Contention Window mechanism.
- Implemented in NS2 simulator. Paper was published in Vol.7 No.2 IJDIWC(SDIWC) journal. Links: [Journal](#) [Paper](#)

NAMED ENTITY RECOGNITION, IIIT HYDERABAD

LTRC Lab (May'16 – July'16)

- Improved the accuracy of Named Entity Recognition task for Hindi by 15%.
- Achieved accuracy in English task reached 90%.
- Implemented in Python Tensorflow framework. Paper was published in the proceedings of ICON-2016 conference. Links: [Conference](#), [Paper](#), [Github](#)

PROJECTS

AI BOT FOR GIPF GAME, NIT TRICHY

Final year thesis (Jan'18 - April'18)

- Defeated the current champion bot in GIPF.
- Analyzed various strategies (Monte Carlo Tree Search, Negascout).

MUSIC RECOGNITION AND GENERATION

Recognizing instruments in Polyphonic Audio Samples (Jan'18 - Feb'18)

- Improved accuracy by 10% in the IRMAS dataset.
- Used LSTM neural networks with Mel Cepstral features.
- Implemented with python Pytorch framework.
- Music created by generating Spectrograms using DC-GAN.

DELTA CLUB PROJECTS

2015-18

- Developed inventory management site with DJANGO and MySQL database.
- Developed a campus communication application in android.
- Developed Tic-Tac-Toe, Chess games with AI in android.