Shreenivas Bharadwaj **Venkataramanan**

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Education

University of California, San Diego

La Jolla, CA

M.S. IN COMPUTER SCIENCE | CUM. GPA: 3.88/4

Sept 2018 - June 2020 (Expected)

· Neural Networks, AI-Probabilistic Reason & Learning, Web Mining & Recommendation Systems, Natural language Processing

National Institute of Technology, Trichy

Tiruchirappalli, India

B.Tech. IN COMPUTER SCIENCE AND ENGINEERING | CUM. GPA: 8.31/10

July 2014 - May 2018

Skills

Programming Languages Python, C/C++, Java, Matlab, HTML, CSS, Java Script, Bash, SQL

Frameworks and Tools

Pytorch, Tensorflow, CUDA/cuBLAS/Thrust, Flask, Jguery, Git, Android Studio

Software Development Experience _____

Google

Mountain View, California

June 2019 - September 2019

SOFTWARE ENGINEERING INTERN | (C++)

- Designing a backfill system in the Google Assistant infrastructure. Enabled a datapush system to make configuration file changes during run time. Ran experiments in production and ramped up.
- Improved the extensibility and scaling of the current system.

Amazon Chennai, India

SOFTWARE DEVELOPMENT INTERN | (JAVA, HTML, CSS, JAVA SCRIPT/JQUERY, SQL, BASH)

May 2017 - July 2017

- Designed an internal tool in the Kindle Digital Commerce Platform to expose the API safely to other teams.
- Reduced the overhead of querying time for listing book loans by roughly 50% using batch APIs. Used LDAP orchestrator for authentication. Implemented statistical tree summaries to save time in investigation.
- Used Amazon's build/test/deployment tools and successfully deployed the project.

Research Experience _____

Acceleration of Vector Auto Regression with GPUs

Indian Institute of Technology, Delhi

RESEARCH INTERN | (C++,CUDA/cuBLAS/THRUST, MATLAB)

July 2017 - Dec 2017

- · Accelerated Vector Auto Regression models using GPUs and computed tight bound solutions for Lasso regression models.
- Achieved 650x speedup over the regular CPU code.

Named Entity Recognition

International Institute of Information Technology, Hyderabad

RESEARCH INTERN | (PYTHON, TENSORFLOW)

May 2016 - July 2016

- Performed NER task using LSTM networks and Word Embeddings.
- Improved accuracy by 15% for Hindi. Achieved 90% accuracy in English. Published in ICON-2016 conference indexed in ACL.

Projects _

ChatterBot - A Text Classifier Bot

University of California, San Diego

COURSE PROJECT | (PYTHON, DIALOGFLOW, PYTORCH, FLASK)

April 2019 - June 2019

- Implemented a Dialogflow chat bot which can classify text with Flask backend.
- Trained LSTM neural networks to classify text and deployed it in Flask. Designed a conversational flow for the Chat Bot. Implemented a delay response mechanism to handle latency for explanation queries. Optimized query latency by using cached models.
- Achieved 99% accuracy for the text classification tasks and a max guery latency of 5s.

Game Strategies for GIPF game

B.Tech, Thesis | (C++, Python)

Feb 2018 - May 2018

- Analyzed and implemented various AI strategies (Monte Carlo Tree Search, Minimax).
- Defeated the current champion bot in GIPF.

Other Projects and Experiences

- Text to Image using LSTM and GANs (Jan 19 Mar 19), Instrument Recognition using Pytorch (Jan 17 April 17), Dynamic MAC layer optimization using C++/NS2 (July 16 - Dec 16).
- Teaching Assistant @ UCSD for "Intro to Python" COGS 18'Spring.

Publications

Dynamic Optimization of IEEE 802.11 DCF based on Active Stations and Collision Prob.

INTERNATIONAL JOURNAL OF DIGITAL INFORMATION AND WIRELESS COMMUNICATIONS

Towards deep learning in Hindi NER: An approach to tackle the labelled data scarcity

ICON, ACL INDEXED