Shreenivas Bharadwaj **Venkataramanan**

□ (+1) 858-366-2933 | Sevenkat@ucsd.edu | Acseweb.ucsd.edu/~sbvenkat | □ shreenibhar

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

Amazon

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

Frameworks and Tools

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

Software Development Experience _____

Google SOFTWARE ENGINEERING INTERN | (C++) Mountain View, California

June 2019 - September 2019

· Google Assistant infrastructure team.

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

Chennai, India 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 90% using batch APIs. Used LDAP orchestrator for authentication. Implemented statistical tree summaries to save time in investigation. Developed backend using the Coral framework.
- 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

July 2017 - Dec 2017

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

May 2016 - July 2016

RESEARCH INTERN | (PYTHON, TENSORFLOW)

- 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

April 2019 - June 2019

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

- 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 guery latency by using cached models.
- Achieved 99% accuracy for the text classification tasks and a max query 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

2017

2016

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

ICON, ACL INDEXED