Aditya D Bhat

AI Enthusiast

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Education

MSc., Computer Science
Specialization in AI (GPA: 4.0/4.0)
University of Minnesota (2021 - Present)
Relevant Courses - *Data Science, Machine Learning, Big Data, Data Analytics, Natural Language Processing, Digital Image Processing, Social Network Analytics, Blockchain*

B. Tech, Computer Science
Specialization in Data Science (GPA: 8.8/10), PES University (2015 - 2019) Bangalore, India, Relevant Courses - *Data Science, Machine Learning, Big Data, Data Analytics, Natural Language Processing, Social Network Analytics*

Technical Skills

Languages: C/C++, Python, Javascript
Tools and Technologies : ReactJS, NodeJS, Keras, TensorFlow, MongoDB, ExpressPostgreSQL, MySQL, Pandas, Numpy, OpenCV, Scikit-learn, spaCy, NLTK, Librosa, Spark.
Other: MS Excel, Git

Technical Courses :

- Natural Language Processing Specialization - Coursera
- TensorFlow in Practice Specialization - Coursera
- Deep Learning Specialization - Coursera
- Design of Bitcoin and Blockchain systems by Boardwalk Technologies, USA.

Experience

July 2019- July 2021 — **R & D Engineer** — Hewlett Packard Enterprise R&D, Bangalore, India

- Created a dataset to characterize over 1200+ Network Stress Test Cases and developed a Smart Triage and Test Execution Tool - reducing manual effort of the Triage Team by 50%.
- Case studies on Network Classification for inferring network behavior using Machine/Deep Learning on the NIMS dataset.
- Developed the Aruba Lab Reservation Tool working alongside a teammate - Network Auto-Discovery, Inventory Control, Utilization Analytics and Stats, remote authentication with LDAP, etc.
- Mentoring five Interns at Aruba Networks, HPE.

Jan 2019- July 2019 — **R & D Intern** — Hewlett Packard Enterprise R&D, Bangalore, India

- Worked on Automation of Network Switching Protocols such as OSPF, ARP, MAC, etc. Built a library to help with data analysis and reporting of ARP Scale Characterization, reducing the manual effort in generating it.

May 2018 - Aug 2018 — **Machine Learning Intern** — Pattern Effects Labs, Bangalore, India

- Identified helpful technical indicators and came up with a suitable objective function that can help predict buy/sell actions on the NIFTY Index to maximize profit.
- Training and hyper-parameter Neural Networks, SVM, RF, XGBoost, KNN, using scikit-learn, TensorFlow and Keras.
- Backtesting the models on multiple folds of historical data to estimate the overall profit over a window of time.

Sep 2017 - Dec 2018 — **Research Intern** — Center for Cloud Computing and Big Data, PES University

- Worked on applied Deep Learning in Automatic Speech Recognition for the language Kannada. Focused on syllable segmentation, mispronunciation detection using Self-Organizing Maps and rating the word pronunciation using deep learning architectures.

Sep 2017 - Dec 2018 — **Research Intern** — Center for Pattern Recognition and Machine Intelligence

- PES University - Worked on projects on Image Processing and Face Recognition with Prof. Vinay A - Explored Classification using SVM, Random Forests, Gradient Boosting, and ResNet.

Projects

2020 — **Neural Net from scratch**
Keras style modular implementation of a DNN with layers for Dense, Reshape, Activations, optimizers like SGD, Adam, etc. and loss functions like MSE, and cross entropy.

2020 — **Speech Transcription**
End-to-End ASR Pipeline to transcribe speech to text using CNNs and variants of RNNs trained on acoustic features like MFCCs and spectrograms.

2019 — **LegoNet** — Research Project
Developed an NLP system working in a team of three, to classify and summarize Indian Legal Judgments using Deep Learning. Focused on Sentence-Paragraph level encoding, Capsule Networks for Text Classification and Unsupervised Text Summarization.***Presented Paper at International Symposium - LKE 2019, Dublin, Ireland.***

Achievements

- Received the **CNR Rao Merit Scholarship Award** (Awarded to top 20% students in the batch) in Nov 2018. Received distinction award in all semesters of undergraduate studies at PES University.
- Recieved the **Best Paper/POC Award** for POC titled **"Kannada Kali – Learning Languages Made Easy"**, 2018 IEEE Pre-Conference on Cloud Computing for Emerging Markets, among 40+ teams.