Saurav vara prasad Chennuri

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Education

Boston University, Graduate school of Arts and Sciences, Boston, MA.   **Sept 2021 - present**
Master of Science, Artificial Intelligence   **GPA : 4.0 / 4.0**
Indian Institute of Technology (IIT), Hyderabad, India   **Jul 2016 - June 2020**
Bachelor of Technology, Engineering Sciences

Courses Taken

Math and AI: Graph Analytics, Machine Learning, Artificial Intelligence, Applied Machine Learning, Representation Learning, Deep Learning for Vision, Deep Learning, Bayesian Data Analysis, Kernel Methods, Foundations of Machine Learning, Math behind Machine Learning, Statistical Learning, Probability, Statistics, Linear Algebra, Data Analytics, Introduction to AI and ML, Differential Equations, Differential Geometry, Linear Optimization, Calculus.
Core CS: Data Structures, Algorithms, Databases, Networks, Discrete structures, Principles of programming languages, Operating Systems.

Personal and Academic Projects

- Quantified Gender Bias with respect to different occupations from Knowledge Graphs datasets of English, Indonesian and Swedish languages: Github Link
- Analyzed and made a classification model for sloshing noises from their frequency and amplitude patterns using deep learning methods like CNNs and LSTMs for fuel tanks of hybrid vehicles. Got a benchmark classification accuracy of 94% on the real-time noise dataset *(Published at **Journal of Acoustic Society of America.** DoI: 0.1121/10.0004829).*
- Finetuned GPT3, roBERTa and BERTweet for sentiment classification on Twitter text dataset from WASSA-2017 competition. I got an improved classification accuracy of 95% on the dev set over the previous best of 89%: Github Link
- Applied Multi-scale structural similarity index for reconstruction loss on Variational Autoencoders and observed improved decoding accuracy of 4% on a facial image dataset and 1.5% over moving MNIST dataset in comparison with BCE and SSIM losses.

Technologies Used

Python, PyTorch, Tensorflow, Keras, C, C++, Java, JSON, OpenCV, MySQL, HTML, CSS, Github, snowflake, google cloud, Deeplabcut.

Work Experience

Graduate Teaching Assistant, Boston University   **Sept 2021 - Dec 2021**

- Conducted Lab sessions and office hours for "Intro to Computer Science" to help students with course content and exams

Data Engineer, Fractal Analytics Bangalore, India   **Oct 2020 - Aug 2021**

- Worked with teams in consulting with the coca-cola company to understand the data hosting requirements in Azure cloud and maintained data pipelines for its visualization in PowerBI.
- Developed different dashboards in PowerBI for visualization of sales, commercial and finance datasets hosted in Azure DataLake, and overseen its refreshes on a periodic basis.

Machine Learning Intern, Takenaka Corporation Tokyo, Japan   **May 2019 - Jul 2019**

- Made an ensemble model (combination of XGBoost, neural nets, SVM) that predicts the number of workers required for construction on a given day. It also predicts the total number of days the construction would take along with what kinds of jobs are required for a given type of construction.

Extra-Curricular

Head of Robotics club at IIT Hyderabad - won best club award, part of National Service Scheme(NSS) to educate underprivileged children, Participated in Megathon at IIIT Hyderabad, top 5 at Honeywell drone challenge at Inter IIT Tech meet;