Avinash Kadimisetty

Graduate Student in Computer Science at UIUC
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EDUCATION

University of Illinois at Urbana-Champaign Champaign, Illinois
Master's degree in Computer Science; GPA: 4.0 *August 2018 – December 2019 (expected)*
Relevant Coursework: Machine Learning, Deep Learning, Computer Vision

IIITDM Kancheepuram Chennai, India
Bachelor's degree in Computer Engineering; GPA: 9.35/10 *August 2012 – July 2016*
Relevant Coursework: Linear Algebra, Probability & Statistics, Data Structures & Algorithms, Database Systems

WORK EXPERIENCE

Yahoo Champaign, Illinois
Summer Intern *May 2019 – August 2019*

- Designed and developed a product to generate insights from advertising data across all data sources at Yahoo.
- Reduced the workload of the sales team for a customer meeting my 70%.
- Used Apache Pig, Hive, Presto, Python and Looker technologies.

Evive Software Analytics Bangalore, India
Jr. Data Scientist *January 2017 – July 2018*

- Analyzed the clickstream data and improved the conversion rates by 13% using machine learning.
- Identified patients at high risk of hospital readmission using machine learning which saved $13,800 per person.
- Accelerated the report generation phase at Evive to reduce the number of analysis hours by 60%.

Mu Sigma Business Solutions Bangalore, India
Trainee Decision Scientist *August 2016 – January 2017*

- **muScrum:** Developed a web-app to store and analyze scrum details to reduce bi-weekly sprint analysis hours by 15%.
- **muMix:** Added new visualizations to show optimum spends across multiple channels in a marketing mix product.

TECHNICAL SKILLS

Tools & Libraries: PyTorch, TensorFlow, H2O, scikit-learn, NumPy, pandas, NLTK, Matplotlib, dplyr, ggplot, Spark, Tableau
Languages: Python, R, SQL, Apache Pig, Hive, C, C++, Java, HTML, CSS, JavaScript
Techniques: Linear & Logistic Regression, k-NN, Random Forest, SVM, Boosting, CNN, LSTM, PCA, SVD, k-Means, GMM, HMM

PUBLICATIONS

Frequent Pattern Mining approach to Image Compression India
22nd IEEE International conference on Advanced Computing and Communications *September 2016*

- Designed an Image Compression algorithm using Clustering and Frequent Sequence Mining.
- Observed an improvement of 45% in compression ratio on benchmark datasets when compared to existing alternatives.

Image Compression – A Frequent Sequence Mining perspective employing efficient clustering India
13th International IEEE India Council International Conference *December 2016*

- Devised a compression algorithm using Patch Clustering and Sequence Mining by exploiting neighborhood properties.
- Achieved 18% better compression ratio on benchmark image Lena, outperforming GIF algorithm.

PROJECTS

Neural Image Caption Generator: Built an image captioning system using pretrained Resnet and 5-layer GRU model architecture to describe an input image in English. Achieved a BLEU-4 score of 22.0 on MSCOCO dataset.
Image Super Resolution: Created an image super resolution framework for x-ray images using Single Image Super Resolution Residual Neural Network. Stood in the top 10 percentile of the class with an average RMSE of 1.41.