Avinash Kadimisetty

Graduate Student in Computer Science at UIUC
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EDUCATION

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

IIITDM Kancheepuram Chennai, India
Bachelor's degree in Computer Engineering; GPA: 3.74 (9.35/10) *August 2012 – July 2016*
Relevant Coursework: Linear Algebra, Probability & Statistics, Data Structures & Algorithms, Database Systems

WORK EXPERIENCE

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

- **User Behavior Modelling**: Improved the conversion rates by 13% using machine learning to target potential users.
- **Medical Event Modelling:** Trained predictive models on AWS EC2 instances to find the chance of occurrence of chronic diseases which avoided $2.1mn in unnecessary treatments.
- **Hospital Readmission:** Identified users at high risk of readmission using machine learning techniques like CNN, Random Forest and Logistic Regression to notify them early and avoid huge healthcare costs.
- **Report Automation:** Accelerated the report generation process 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

Quantitative: Machine Learning, Deep Learning, Artificial Intelligence
Tools & Libraries: PyTorch, TensorFlow, H2O, scikit-learn, NumPy, pandas, NLTK, Matplotlib, dplyr, ggplot, Spark, Tableau
Languages: Python, R, C, C++, Java, HTML, CSS, JavaScript, SQL
Techniques: Linear Regression, Logistic Regression, k-NN, Random Forest, SVM, Boosting, CNN, RNN, LSTM, GRU, 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.
Online Recruitment Portals: Developed web portals for Faculty and Staff Recruitment at IIITDM Kancheepuram. Automated selection process reduced the manual collection and selection process by 30%.