Arun Gopal Govindaswamy
Data Science Professional

Data science professional experienced in data analysis, predictive modeling, computer vision and machine learning. Intrigued by challenges in data science and seeking to leverage statistical techniques to address them. Passionate about data driven decision making, pattern recognition and predictive modeling. Achievements include research work in bioinformatics, computer vision and deep learning. Seeking full time opportunities in computer vision and deep learning space.

Work History

Mar 2019-Current

Graduate Research Assistant, *DePaul University*
- Worked on different research projects applying **image processing, machine learning, deep learning,** and **computer vision** techniques and published 3 scientific papers.
- Conducted research from generation of ideas, literature surveying, implementation of methods, collaboration with different stakeholders and publishing of papers.

Aug 2019 - Current

IT Support Specialist, *DePaul University*
- Maintain the department's web page using **HTML** and **SharePoint**.
- Communicate with different non-technical teams in documenting processes and procedures for future support resulting in superior technical experience across department.

Dec 2017 - Feb 2019

DevOps Engineer, *Cognizant Technologies*
- Built and maintained **Continuous Integration** and **Continuous Delivery** pipelines following agile methodology resulting in prompt delivery of project requirements using various tools like **Jenkins**, **IBM UDeploy**.
- Developed automation and deployment utilities tasks using different programming and scripting languages like **python**, **shell**, **groovy**, and **bash**.
- Assisted team with analytics and visualization using **ElasticSearch** and **Kibana**. Gained experience with cloud infrastructures like **AWS web services** and **containers** like **Kubernetes**.

Education

Mar 2019 - Current

Master of Science: Data Science
DePaul University – Chicago (GPA: 4.0/ 4.0)
--Graduate Research Assistantship Awardee--- Graduate Ambassador of the Data Science Program --- Campus Lead to India Student Hub USA

Jul 2013 - May 2017

B. Tech: Computer Science and Engineering
Abdur Rahman University - Chennai, India (GPA: 3.44/ 4.00)
---Elected Joint Secretary of Computer Science Department --- Elected Vice-captain of the University Cricket Team

Projects

Sep 2020 - Current

Hybrid models in computer vision applications
- Current research work on convolutional neural networks altering its architecture and building hybrid models making the deep learning model both time and computationally efficient. Earlier work has already been published at ADIP 2020.

Jan 2020– Aug 2020

Gaze Recognition in patient-physician video interactions using computer vision and machine learning techniques
- Research project focused on identifying the gaze of the physician in video interactions through automated machine learning techniques. Built an annotation tool capable of reducing the human labor in manual annotations.

(+ 6 more projects)

Publications
- CNN as a feature extractor in gaze recognition, AICCC 2020.
- Predicting physician gaze in clinical settings using optical flow and positioning, ICVNZ 2020.
- Measurement of similarity in C. Elegans healthspan using dynamic time warping on movement features, BICOB 2020.

Contact

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Portfolio
https://cheeku18.github.io

LinkedIn
www.linkedin.com/in/cheeku18/

GitHub
https://github.com/cheeku18

Skills

Cloud Infrastructure
-- AWS, Google Cloud

CI/CD Tools
-- Jenkins, IBM UDeploy, GitHub

Data Visualization
-- Tableau, Kibana, GGPlot2, matplotlib

Predictive Modeling
-- Supervised, unsupervised and semi-supervised learning, ensemble learning, decision trees, active learning

Data Analysis
-- Regression and Classification models, PCA, Factor and Cluster Analysis

Programming Languages
-- C, Python, R, JAVA, MATLAB

Deep Learning
--CNN, RNN, ANN, GAN

Machine Vision
-- Segmentation, Edge Detection, Object Detection, Fourier and Wavelet transformations, OpenCV

Big Data
-- Hadoop, Spark, MapReduce, SQL, HIVE, PIG

References

1. Jacob Furst, Professor and Director, School of Computing jfurst@cdm.depaul.edu, 312-362-5158

2. Daniela S. Raicu, Associate Provost for Research, DePaul University dstan@cdm.depaul.edu, 312-362-5512