Gopalakrishnan Shanker-Rajhan

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
Masters in Statistics
Expected May 2019
Champaign, IL
Cum. GPA: 3.6

ANNA UNIVERSITY
BS in Mechanical Eng.
Aug 2010 – May 2014
Chennai, India
Cum. GPA: 3.7

COURSEWORK

GRADUATE
Deep Learning
Advanced Machine Learning
Big Graphs & Social Networks
Monte Carlo Simulation Methods
Advanced Regression Methods
Mathematical Statistics
Foundations of Big Data
Data Structures

UNDERGRADUATE
Robotics
Numerical Methods
Optimization Theory
Advanced Calculus
Linear Algebra

SKILLS

PROGRAMMING
R • Python • C++ • SAS

DATABASES
SQL • Hive • Hadoop • Pig

VISUALIZATION
RShiny • Tableau • ggplot2 • seaborn • plotly

LIBRARIES AND TOOLS
scikit-learn • NLTK • scipy • PyTorch • genism • Git

INTERESTS

Coach at Slum Soccer
Photographer
Writing
B1 Zertifikat in German

WORK EXPERIENCE

GROUPON | Data Scientist Intern
May 2018 – Aug 2018 | Chicago, IL
- Identified triggers indicating fraudulent behavior in consumer transactions
- Drove 17% increase in consumer fraud detection rates by overhauling a gradient boosted tree model
- Designed an intuitive framework for model evaluation and automated the process for Tableau

LATENTVIEW ANALYTICS | Data Scientist
August 2016 – July 2017 | Chennai, India
- Enhanced customer experience on PayPal's website by designing A/B experiments and running multivariate testing initiatives
- Identified important web traffic paths and bottlenecks by using network analysis and graph based visualization

MU SIGMA INC | Decision Scientist
Aug 2014 – June 2016 | Bangalore, India
- Utilized scraped social media data and logistic regression to identify potential new customers
- Revived 11% of potential attrition cases by building a customer classification algorithm using unsupervised learning
- Built 'Passion Index' - an algorithm to quantify the sentiment of the audience at soccer stadiums using scraped commentary and natural language processing

PROJECTS

SHOW AND TELL: NEURAL IMAGE CAPTION GENERATOR
Deep Learning Project
- Build a generative model using deep recurrent architecture to automatically describe the contents of an image
- Train a Convolutional NN as an image encoder and use its output as input to an LSTM decoder that generates sentences

THE FIVE FACTOR MODEL OF PERSONALITY & DRUGS
Machine Learning Research Project
- Provided a psychological perspective on the 'War on Drugs' by predicting an individual's drug consumption choices using information about their personality traits
- Built an ensemble model using Random Forests, kNN and Naive Bayes which obtained an accuracy of 80%

MOVIE SCREENPLAY ANALYSIS
Hobby Project
- Built a bag of words and word2vec model, to define the semantic characteristics of famous writers in Hollywood

SOCCER ANALYTICS
Hobby Project
- Scraped soccer shots data from the web to build an 'Expected Goals' model. The model gives a quantitative measure to the quality of scoring opportunities