Gopalakrishnan Shanker-Rajhan

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
Masters in Statistics
Aug 2017 - May 2019
Champaign, IL
Cum. GPA: 3.7

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
Advanced Regression Methods
Mathematical Statistics
Foundations of Big Data
Bayesian Analysis
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 • networkX

INTERESTS

Coach at Slum Soccer
Photographer
Writing
B1 Zertifikat in German

WORK EXPERIENCE

GROUPON | Data Analyst
September 2018 – December 2018 | Champaign, IL
- Build a user friendly Rules Recommendation Tool (to detect fraud) that uses the branches of a decision tree to pick the most effective rules

SYNCHRONY FINANCIAL | Data Scientist Intern
September 2018 – December 2018 | Champaign, IL
- Reviewed the existing literature on financial loss forecasting and built multiple time series and machine learning models for testing and comparison

GROUPON | Data Scientist Intern
May 2018 – August 2018 | Chicago, IL
- Drove 3 point increase in consumer fraud detection rates by engineering new features and overhauling a gradient boosted tree model using Python

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

MU SIGMA INC | Decision Scientist
August 2014 – June 2016 | Bangalore, India
- Utilized scraped social media data and logistic regression to identify companies with potential for aggressive expansion
- 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
- Augumented the landmark 2015 publication from Google by training a Convolutional NN as an image encoder and using its output as input to an LSTM decoder that generates captions for the images

GRAPH BASED RECOMMENDER SYSTEM
Network Analysis Project
- Explored the usage of product graphs and community detection to serve unique recommendations from Amazon's product catalogue

PERSONALITY & DRUGS
Machine Learning Research Project
- Provided a psychological perspective on the 'War on Drugs' by associating an individual's cognitive personality traits with their drug consumption choices, using an ensemble ML model

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