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

July 2019 - Present | Chicago, 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