Jeffy Merin Jacob

Contact

Austin, Texas

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Education

Masters, Computer Science (Data Science)

University of Southern California, Los Angeles, United States
CGPA: 3.4/4.0
08/2017 – 02/2019
Courses
Machine Learning - Data Mining - Artificial Intelligence - Database Systems - Geospatial Information Management - Information Retrieval and Web Search Engines - Web Technology - Analysis of Algorithms

Bachelors, Computer Science and Engineering

St. Joseph's College of Engineering, Anna University, Chennai, India
CGPA: 8.74/10.0
07/2013 – 05/2017

Key Skills

- Python
- Python libraries (pandas, numpy, scikit-learn, Django, Dash)
- Deep Learning (Tensorflow)
- Tableau
- SQL
- MS Excel
- Cloud Services (Google Cloud, AWS)
- C++

Certifications

Data Science Foundations: Fundamentals (09/2019)
Python Essential Training (12/2018)
Statistics Foundations: 1 (12/2018)
Learning REST APIs (06/2018)
EMC Academic Associate (03/2016)

Objective

Graduate Data Scientist passionate about developing predictive models that help tackle societal problems. Skilled in data cleansing, wrangling, visualization and machine learning. I am a data-driven storyteller characterized with a passion for coding and a zeal to take on challenges.

Experience

USC Center for Artificial Intelligence in Society (CAIS)
Student Intern
01/2019 – 08/2019
- Developed a Python Django web application for a preference elicitation machine learning algorithm.
- Performed feature selection (RFECV) on HMIS data to determine best number of features accuracy wise when using a Logistic Regression model.

USC Information Technology Services
Summer Research Intern
05/2018 – 08/2018
Team: Data Networks and Operations
- Designed a dashboard using Python Dash and perfSONAR toolkit to visualize packet moment and re-transmits between BWCTL servers thereby monitoring network performance.

Dowell Technologies
Intern
05/2017 – 07/2017
- Developed numerous simple to complex queries involving procedures, functions, triggers for diverse business requirements.
- Optimized queries using indexing strategies and altering database design.

Projects

Foundations of Artificial Intelligence (10/19 – 11/19)
Developed a game playing agent that plays the adversarial game - Halma using the minimax algorithm with depth = 5 and alpha-beta pruning. Each player starts with 19 game pieces clustered in diagonally opposite corners of the board. To win the game, a player needs to transfer all of their pieces from their starting corner to the opposite corner, into the positions that were initially occupied by the opponent.

Applications of Data Mining: Charity Matching (03/2019 – 05/2019)
Created content based and collaborative filtering recommendation systems to recommend projects to donors in Oakland in order to maximize number of donations. Identified targeted donors who have previously donated to a cause and recommend similar projects to them.

Machine Learning for Data Informatics: Supervised/unsupervised learning algorithms (01/2018 – 04/2018)
Improvement of Python code that created expert variables for a fraud detection algorithm. Initial code took 24 hours to run 100,000 records. The modified code took 20 minutes to run 97,000 records in addition to 4 more variables.
Developed decision trees, gaussian mixture models, SVMs as part of coursework with a purpose of developing a deeper understanding of the internal workings of various classifiers.