Jim Cassidy

Math Instructor, Jr IBM Certified Data Scientist: 12+ yrs math/computer education background

Experience

Math Instructor 2018 - present | *Cambridge Learning Center*

- Applied Scikit-Learn, Python and Tkinter to create polynomial regression with a user interface to predict SAT scores.
- Math Subject Tutoring and SAT Prep with a focus on Statistics, Calculus, Pre Calculus, Algebra, Geometry

Adjunct Professor Computer Science - 2006-17 | *Sussex County Community College*

- Prepared curriculum, graded and delivered lectures to a class of 26 Students in Database, Java, C C++, Word, Excel, Access, Powerpoint.
- Teaching and mentoring GED Math

GitHub Portfolio Summary

- **Ecoin-trends:** Bitcoin vs Litecoin - compare and contrast these plus other electronic coins with old school statistical methods and deep learing such as Pytorch, to determine which coin has more of a chance of raising in value and being used.

- **Market Analysis and Trend Forecast:** To practise market analysis and forecast trends with data from businesses such as restraunts that fall in a specifc geographical area. Use Foursquare with Flask to create the statistics required to assist such businesses discover their area and expand their business options.

- **Language Chatterbot:** Create a chatterbot with the ability to provide a conversational dialogue with its user. This project is a passion project as I am currently learning the Hindi Language from scratch and wish to devise a way to increase my vocabulary as well as learn to repeat everyday phrases that will allow me to hold a conversation. I employed Tensorflow to create this, and worked with deep learing from a foundation of code that I modified.

- **Data Visualization:** Create a template so that people can quickly create nice looking graphical charts using a user-friendly database. Programmed using Python language - Tkinter/Sqlite/Sci-kitlearning

Certifications

Coursera IBM Data Science Professional - 2019

- Capstone Project: Extracted data from Foursquare and applied Python and K-means statstical techniques to analyse a city's data and determined correlations between economy, education and violence. (visit GitHub)

HackerRank: Python Gold Badge

Education

MS Cyber Security, NJIT - 2017
- Internet Privacy, Network Communications (linux)

BS Computer Science, Centenary University - 1999
- Mastered Mathematics Courses offered

Personal Info

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GitHub
github.com/jim-cassidy

Technical Skills

Machine Learning (AI)

Deep Learning

Data Visualization / Tableau

Statistics

PHP / Javascript / HTML5 / CSS / Flask

Python / Matplotlib / Numpy / Pandas / Tkinter

Tensorflow / PyTorch / Scikit-Learn

Java / C C++

Maven / Swing

MySql / Neo4j / SQLite / Spark / Hadoop

Jupytar Notebooks

Foursquare

Cryptogaphy

Cisco Router

Soft Skills

Problem Solving

Critical Thinking

Teaching and Mentoring

Motivated Self Learner

Strong Work Ethic