Miguel Garcia

miguelgarciad01@gmail.com | 619.259.8975 | U.S Citizen

EXPERIENCE

COMSORT, INC, (DBA MEDIFIND) | DATA ENGINEER

Feb 2021 - Present | Hunt Valley, MD

- Supported operation tasks such as data refreshes, development of data process automation tools through Python, and with the creation and maintenance of data pullers/loaders.
- Assisted team members in troubleshooting development and production runs of the application by making use of AWS tools, Spark, Java, and ElasticSearch.
- Performed maintenance in the database when bugs arose and incorporated fixes into the pipeline process to maintain the integrity of the database.

NGOGGLE DIAGNOSTICS, INC | DATA SCIENCE CONSULTANT

Dec 2019 - Jan 2021 | San Diego, CA

- Worked on a research project that involves developing effective neurofeedback systems that can help classify sleep stages using low-cost and non-invasive EEG electrodes.
- Implemented Convolutional Neural Network algorithms using Python and tensorflow to capture dependencies between sleep epochs and sleep scores in order to classify sleep stages using a single EEG channel.

UCSD COGNITIVE SCIENCE DEPARTMENT | INSTRUCTIONAL

APPRENTICE

Sep 2019 - Dec 2019 | La Jolla, CA

- Assisted with the teaching of an upper division course in Data Science.
- Organized weekly discussions and office hour sections where students ask any data science related questions and get help on their projects.

SWARTZ CENTER FOR COMPUTATIONAL NEUROSCIENCE

RESEARCH ASSISTANT

Jul 2019 - Nov-2019 | San Diego, CA

- Applied machine learning algorithms and models to assist with the detection of sleep stages on subjects diagnosed with RBD using Python.
- Provided analytics and visualizations on how the brain signals behave under certain sleep disorders (bruxism, nocturnal frontal lobe epilepsy, etc)

PROJECTS

GENERATIVE MODELS FOR IMAGE REPRODUCTION

Python | Tensorflow | Machine Learning | Data Science

- Analyzed the performance of different autoencoders and adversarial neural networks for reproducing image input using the CelebA dataset.
- Built the architecture for the neural networks and the autoencoders using PyTorch and wrote multiple pipelines to process the data.

MEET TO DINE - SPONSOR WINNING PROJECT

HTML | CSS | Node. JS | Algorithms

- Sponsor winning project (OpenTable) where we designed a mobile app at Cal Hacks 4.0 (UC Berkeley) that facilitates groups of people agreeing upon eating at the best location possible.
- Developed a location tracking functionality, and implemented backend infrastructure by developing a restaurant selection algorithm. Created application in react native using expo.io.

FDUCATION

JOHNS HOPKINS UNIVERSITY

M.S. IN DATA SCIENCE Expected Dec 2022 | Baltimore, MD

UNIVERSITY OF CALIFORNIA, SAN DIEGO

B.S. IN COGNITIVE SCIENCE WITH A
SPECIALIZATION IN MACHINE LEARNING AND
NEURAL COMPUTATION
March 2020 | San Diego, CA

SKILLS

PROGRAMMING

- Python Java C/C++
- HTML CSS JavaScript
- Node.js SQL R
- Spark Scala ElasticSearch

TECHNOLOGY

- MongoDB MySQL
- Git/Github Linux
- UNIX Bash Zeppelin
- Airflow AWS Hadoop

COURSEWORK

GRADUATE

Algorithms for Data Science
Data Visualization
Data Structures
Discrete Mathematics
Database Systems
Statistical Models and Regression

UNDERGRADUATE

Machine Learning I and II
Adv. Machine Learning Methods
Brain Computer Interfaces
Data Science in Practice
Multivariable Calculus
Programming in Java I and II
Programming in C
Software Tools and Techniques
Probability Theory
Linear Algebra
Vector Calculus

LINKS

LinkedIn: miguelgd54
Github: miguelgd54
Personal Website:
https://miguelgarciad.com