Miguel Garcia

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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 | Consultant (Data Scientist Related Work)

Dec 2019 – Jan 2021 | San Diego, CA

- Worked on a research project funded by the National Institute of Health 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 Volunteer

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.

EDUCATION

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

STUDIES

MASTERS

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

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