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 | Data Science Consultant

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

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

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

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