Miguel Garcia

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EXPERIENCE

COMSORT, INC., (DBA MEDIFIND) A WHOLLY OWNED SUBSIDIARY OF MERCK & CO., INC | Data Engineer (Full-time, Salary)

Feb 2021 – Present | Working Remotely From San Diego, CA

- Supported operation tasks such as data refreshes, automatic alias updates through python and airflow, etc.
- Assisted team members in troubleshooting development, test and production runs of the application.
- Wrote several python scripts to incorporate with airflow in order to automate data pipeline processes.

NGOGGLE DIAGNOSTICS | Consultant (Data Scientist Related Work) | (Part-time, Paid by the Hour)

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.
- Identified key performance indicators that are important towards improving sleep quality and for calculating the sleep onset of patients by doing exploratory analysis of the collected/available data.

UCSD COGNITIVE SCIENCE DEPARTMENT | Instructional Apprentice (for the course COGS 108) | (part-time, non paid)

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 (part-time, non-paid)

Jul 2019 – Nov-2019 | San Diego, CA

- Used machine learning algorithms and models to assist with the detection of sleep stages on subjects diagnosed with RBD.
- 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 pre-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.
- Integrated a database, 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 | Part-time (online)
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

TECHNOLOGY

• MongoDB • MySQL
• Git/Github • Linux
• UNIX • Bash • Zeppelin
• Airlow • AWS • Hadoop

STUDIES

MASTERS

Algorithms for Data Science
Data Visualization
Data Structures
Discrete Mathematics

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
Data Structures
Probability Theory
Linear Algebra
Vector Calculus

LINKS

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