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PERSONAL PROFILE

Software Engineer with 7+ years of experience and passionate about Machine Learning and Deep Learning. Involved in multiple phases of the software life cycle such as analysis, design, and testing. Effectively utilizes critical thinking, attention to detail, interpersonal and communication skills to drive results. Strong business development professional, seeking to utilize my strong prioritization and analytical skills to bring fast, intelligent solutions at your Company. Fluent in English and Spanish.

EDUCATION

- PyTorch Scholarship Challenge from Udacity and Facebook, 2019
- Data Science Scholarship Challenge from Udacity and Bertelsmann, 2018
- Complete Oracle SQL Certification Course, Udemy, 2018
- M.S. Degree in Networking and Information Technologies, Instituto Tecnológico Superior de Sinaloa, (Anticipated April 2018)
- B.S. in Business Administration & Computer Science, Universidad Autónoma de Durango, 2007

TECHNICAL SKILLS AND AREAS OF EXPERTISE

Python, PyTorch, TensorFlow, Numpy, Pandas, OpenCV, Matplotlib, Seaborn, BeautifulSoup, NLTK, Scikit-learn, Textblob, WordCloud, Tweepy, Anaconda, Google Colab, Jupyter Notebooks, Tableau, Machine and Data Science Algorithms, SQL, HTML5, CSS3, JavaScript, Excel.

Data cleaning, Data Analysis & Data Visualization, Statistical Analysis, Data Mining and Web scraping, Data Wrangling, Model Building, Relational and No Relational Databases, Cloud Computing Services, Machine Learning, Deep Learning, Neural Networks (CNN, RNN, LSTM), Transfer Learning, Style Transfer, Sentiment Analysis, Research and Analysis, Natural Language Processing.

PROJECTS

- Built an AI application with PyTorch, that detects diseases in plants crops (96% accuracy) [See project](#)
- Built an AI application with PyTorch that detects Breast Cancer using the Breast Cancer Histopathological Database (BreakHis). [See project](#).
- Flower Classification app, using a Convolutional Neural Network and transfer learning using PyTorch and style transfer. [See project](#)
- Implemented a Siamese Neural Networks model to find face similarity and collected dating app profiles data to generate new profiles using a Character-To-Characters model. [See project](#)
- Sentiment Analysis on Twitter, using Bag of Words model and Tf-Idf weighting. [See project](#)
- Sentiment Analysis on movie reviews using a Convolutional Neural Network (CNN) [See project](#)
- Spam-Detecting Machine Learning Classifier using NLTK and Naive Bayes algorithm [See project](#)

EXPERIENCE

Data Driven Investor Publication

Writer in the Artificial Intelligence section

2018 - Present

- Contributed writing articles about Artificial Intelligence such: “*Creating an AI app that detects diseases in plants using Facebook’s deep learning platform: PyTorch*”, “*Can we add personality to an Artificial Intelligence ChatBot?*” [Read blog](#)
- Got into the Top Writers List in Artificial Intelligence.

National Commission of Aquaculture and Fisheries (CONAPESCA)

Business Analyst

2012 - 2016

- Participated in the project: Implementation of the New Fish Export License System at CONAPESCA. Worked with a variety of team members that included software developers, project manager and business analysts, gathered requirements for the project
- Interviewed stakeholders, to identify and analyze their needs and requirements, recommended and designed technological improvements to the system. Analyzed and created stakeholders surveys, interview information, user experience feedback and user needs
- Provided the link between the customers, development team regarding software functionality throughout the development lifecycle. Also provided updated project status reports to team leadership. Responsible for monthly management reports and project progress
- Supported the development of the new system and its transition from .NET to HTML5, JavaScript, jQuery and Oracle database

Universidad Autónoma de Durango, Mazatlán Campus

Instructor

2010 - 2012

- Instructor in the following courses: e-Commerce, e-Marketing, Web Development, Internet focused on the Web 2.0 and advanced Excel for Data Analysis
- Built e-Commerce experience and taught the basics of selling online, and a grand tour of over a dozen of the top ecommerce platforms. The final project was to set up an ecommerce web application (Woo Commerce, Magento, OpenCart, Prestashop, Drupal, TomatoCart, osCommerce, ZenCart, etc.)
- Helped students develop an understanding of online marketing opportunities and the impact of the Internet on marketing activities as well as how to conceptualize, define and execute an effective online marketing plan by examining various methods and current best practices. Used tools like Google Trends, Google AdWords and Google Analytics
- Assisted students in understanding the following languages: HTML5, CSS3, jQuery, JavaScript, MySQL databases, and ActionScript. Helped teach students coding fundamentals such as clean code, informative comments, syntax standards, and best tools for programming. I oversaw student web application projects and assisted students with stuck points by guiding them to solutions. Created, taught, and updated curriculum based upon currently technologies and methodologies. Good with communication and time management
- Taught advanced Excel creating formulas and how cells are referenced by rows and columns within Excel, also how to perform data analysis using Excel tools, how to create pivot tables from a range with rows and columns in Excel and its ability to summarize data in flexible ways, enabling quick exploration of data and producing valuable insights from the accumulated data

MPower Group

Web Developer

2010 - 2012

- Worked in a fast paced multimedia production firm. Was involved in every aspect of the design process, from client consultations through development, design and implementation of effective websites
- Worked with designers to manage large, complex design projects for corporate clients

Freelancer

Web Developer

2009 - 2017

- Skilled in HTML5, JavaScript, jQuery, SQL, CSS3, WordPress and a variety of open source platforms. Have collaborated with designers to manage large, complex projects for corporate clients
- Joined client meetings to learn about development of project scopes
- Developed project concepts and maintained optimal workflow
- Contacted clients to obtain more information and discuss design options
- Collaborated with designers to create clean interfaces and simple, intuitive interactions and experiences
- Carried out quality assurance tests to discover errors and optimize usability