ABDIAS BALDIVIEZO

Salt Lake City, UT - abadias618@gmail.com - 801 875 0504
abadias618.github.io - linkedin.com/in/albertobaldiviezo

Results-driven SWE specialized in AI with a combined experience of 4 years. Possesses the ability to quickly Adapt to any team, person, technology, or project in order to make great things happen!

EXPERIENCE

09/2022 – 06/2024 | **Graduate Teaching Assistant** | School of Computing - University of Utah
- Taught Python weekly in lab classes of 30 students and in lectures of approx. 150 students.
- Applied Python to projects using: Distributed Computing, HPC services, NoSQL (Column and document oriented), XAI, NLP-NLU-NLG, DL:GANs-RNNs-CNNs, RLHF, Data Mining, MLOps.

01/2021 - 09/2022 | **Software Engineer** | InfoRight - Information Technology and Services
- Full SDLC for Mining equipment management with React, Node, AzureSQL, AWS(EC2, S3),REST.
- Implemented integrations for MS PowerApps (Geolocation, Azure Datalake, Code Compilation).
- Performed Data QA in start-up environment with Great Expec. and Airflow for Pipelines.
- Scaled Web Scraping Product (Selenium, Beautiful-Soup, Node) to support thousands of records.

01/2020 - 04/2021 | **Software Developer** | BYU-Idaho – Business Solutions
- Developed Java & JS interface for TeamDynamix Integrations processing more than 500K records.
- Developed time series prediction models (Prophet, ARIMA) to optimize scheduling and management for university HR, saving 10 man-hrs a week.
- Proposed and coded Chatbot (Flask, NLTK, Knowledge Bases, Info. Extraction) first initiative.

SKILLS

Cloud: AWS, Azure, Databricks, Heroku.
Code: C++, Go, Java, Javascript, Python, R.
Data: GreatExpec., dplyr, Numpy, Pandas.
DBs: Azure SQL DB, MySQL, MongoDB, MSSQL, Oracle, PostgreSQL.
Deep Learning: NN-Archs,PyTorch,Tensorflow.
Dev/MLOps: Airflow, Bash, Conda, Docker, Git, Linux, MLflow, PyTest, AWS Sagemaker.
Generative AI: LLMs, Stable Diffusion, Transformer Models.

LLMs: HuggingFace, LangChain, RAG.
NLP: Info. Extraction, NLTK, Parsing, SpaCy.
Parallel & Accel: CUDA, Spark, TensorRT.
Reinforcement Learning: RLHF, Q-Learning.
Statistics: Bayesian Methods, Modeling, Numpy, Regression, Scikit-Learn, SciPy.
Unsupervised ML: Clustering, K-means, PCA.
Viz: ggplot2, Matplotlib, Plotly, Seaborn.
Web: BeautifulSoup, Bootstrap, Flask, Node, PlayWright, React, Selenium, Shiny, Spring.

RECENT PROJECTS

(1) One/few/zero-shot prompt study of multimodal IDEFICS vs SoTA models in image classification.
(2) Study of Hyena Hierarchy Filters to reduce quadratic operations (attention) in Transformer models.
(3) Artificial Creativity (Strong vs Weak AI, Creativity Intersection Human/Machine) - Phil of Mind.
(4) Multilingual Named Entity Recognition BIO-tagger trained with PAN-X data (4 languages).

EDUCATION

08/2022 - 06/2024 | **MS Computing - Artificial Intelligence** | University of Utah
01/2020 - 04/2021 | **BS Software Engineering** | Brigham Young University Idaho
01/2018 - 12/2019 | **AS Software Development** | Ensign College

NATURAL LANGUAGES: English (Proficient), Portuguese (Proficient), Spanish (Native)