Frank Moshe

DATA SCIENCE & COMPLEX NETWORKS

SUMMARY

Hello, I'm Frank, a data enthusiast who thrives on extracting insights and knowledge from raw data. During my PhD, I focused on quantifying temporal network changes and mining extensive datasets, particularly in social networks, earth sciences, and spatio-temporal events. Beyond work, I enjoy painting watercolors and exploring new decentralized applications.

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PROFESSIONAL EXPERIENCE

Data Analyst at VISA / Marketdata (1 year)

- Increased SQL query performance, reducing query execution time by 60% and improving report generation speed.
- Developed interactive dashboards using Power BI / Excel to show key metrics and trends, facilitating data accessibility among teams.
- Implemented data validation pipeline to identify discrepancies from clients, thereby achieving a 99% data accuracy rate through precise error pruning
- Built intuitive, user-friendly dashboards enabling individuals to generate their own reports.

Data Engineer at Attox (+2 years)

- Achieved +30% revenue growth by identifying arbitrage opportunities in crypto exchanges, deploying automation bots for real-time data processing.
- Enhanced machine learning model accuracy by 25% by sourcing data from API-less external sources, utilizing advanced data extraction techniques.
- Significantly reduced the time required for data processing and storage, cutting down the end-to-end process by over 70%.

Data Scientist at Climatempo and Primate (+3 years)

- Created ETL services to facilitate incremental data loading from over 30 diverse sources and databases (PostgreSQL, SQLite) to cloud platforms such as AWS S3 and Bigquery.
- Achieved a remarkable 40% reduction in execution time for data mining pipelines. Redesigned data analytics workflows, orchestrated processes with Prefect/Airflow, and optimized SQL queries.
- Boosted our prediction model accuracy by an impressive 35% through the implementation of ensemble machine learning techniques.

EDUCATION

Ph.D. in Applied Computing - National Institute for Space Research (INPE) - Brazil | 2015 - 2020

- Research: "Pattern detection in temporal and spatial events via complex networks"

M.Sc. in Complex Systems Modeling - University of São Paulo (USP) - Brazil | 2013 - 2015

- Research: "Epidemic spreading models in complex networks"

B.S. Systems Engineering - Peruvian Union University (UPeU) - Peru | 2007 - 2011

Research publications on Google Scholar

TOOLS I USE

- Data analysis: Python, Julia, Jupyter
- Data visualization: D3.js, plotly
- Network analysis: igraph, NetworkX
- Network visualization: gephi, Cytoscape
- Web development: Flask, Codeigniter, AlpineJS, HTMX, Hyperscript, Vue
- Web design: Figma, Tailwind
- Web setup: Azure, Google Cloud
- Machine learning: sklearn, xgboost, h2o, mindsdb, orange, etc
- Databases: SQLite, MongoDB, Neo4J, PostgreSQL, Supabase, Pocketbase
- Web crawling: Scrappy, Selenium, Nim, Javacript
- No-Code: Retool, WeWeb, Bubble

HOBBIES AND INTERESTS

I love to paint portraits and human figures with watercolors, ink, and charcoal. I'm also an avid reader, especially when it comes to books about innovation, creativity, and startups. In my free time, I enjoy working on side projects related to the internet and growth hacking. And when I want to unwind, you can find me playing the violin and ocarina.

LANGUAGES

- Spanish (writing and speaking)
- Portuguese (writing and speaking)
- English (writing and speaking)