YADIR VEGA ESPINOZA

Data Engineer | AI & ML Specialist | Analytics

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📍 San José, Costa Rica

WORK EXPERIENCE

Sr Data Analytics Executive | Remote
LMT CONEXUS-GROUP

📅 Jan 2020 – Oct 2022   📍 San José, Costa Rica

- Business Analyst & Data Visualization (Power BI & Tableau) and ETL Developer (R & Python).
- Prediction using machine learning techniques, forecasting, risk modeling, automation and optimization of reports (Scripting, Task scheduler, SMTP / POP server).
- Implementation and deployment of cloud data products.
- Data segmentation.
- Manage and meet with external client portfolios about current and new projects.
- Business anomaly detection algorithms: Isolation Forest,local Outlier Factor (LOF), One-Class SVM.
- Dimensionality reduction algorithms: PCA, t-SNE, UMAP, ICA.
- Clustering algorithms: K-Means, C-Means, DBSCAN, Hierarchical clustering, Mean Shift.
- Fuzzy classification models that employ smoothing techniques with hyperbolic functions, optimized using genetic algorithms or gradient-based methods. Other techniques: linear regression, logistic regression, decision trees, random forest, support vector machines (SVM), k-nearest neighbors (KNN), artificial neural networks, gradient boosting machines (GBM), naive Bayes.

DATA ENGINEER | Remote
COOPELESCA R.L

📅 Oct 2022 – Today   📍 San José, Costa Rica

- Azure/AWS cloud data engineering: Development and deployment of data products. Scrum & Dev Ops.
- CI/CD Pipelines, docker and kubernetes, shell and bash, ETL.
- Times series database (InfluxDB, TimescaleDB), SQL and NoSQL DB.
- Query and data management with Oracle SQL and Oracle PL-SQL.
- Webservices (Soap and Rest) developer.
- .NET C# developer.
- Data Analytics | Microsoft Fabric
- Development and maintenance of Cloud Data Warehouse with Postgresql.
- Data lake (Amazon S3, ADLS Gen2).
- Loggin with azure, log management, Grafana. Data Governance: (Microsoft Purview).
- Strong programming skills and design patterns. Languages such as python, Java, C#, Javascript, R, Rust.
- Testing tools such as Postman/Insomnia, Selenium, SoapUI.
- Solutions based on data lake architectures such as traditional, lambda, Kappa and Lakehouse.
- Cloud Data Engineering (IaaS, PaaS, SaaS).
- Basic compliance to frameworks (GDPR, HIPAA, PCI, SOX).

KEYWORDS

Data Ingestion   IaaC   CI/CD   C++
Nginx   R   C#   Databricks   NLP
Cloud services   Python   Docker
Airflow   Rust   Spark   Java   Linux
Kubernetes   Terraform   IA   ML
Microsoft Fabric   Tensorflow
Databricks   Big Data   Posit / Shiny

EDUCATION

Bachelor of Education - BEd, Mathematician | Computer Sciences, Engineering
Instituto Tecnológico de Costa Rica.

📅 2016   📍 Cartago, Costa Rica

Expert Program in Artificial Intelligence
PROMiDAT

📅 2024-2025   📍 San José, Costa Rica

E-LEARNING CERTIFIED

Data Lakehouse Databricks Certified
Scrum Fundamentals Certified 4th Edition
Azure Data Engineer Smart Data Certified
Azure DevOPS Smart Data Certified
Machine learning: Data Science con RStudio
Python data science and risk modeling
Azure Data Engineer   Oracle PL-SQL
Data engineering with Apache Spark

REFERENCES

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