

# CARLOS DE MANUEL VICENTE

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## SKILLS

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**Data Warehousing & Transformation:** Snowflake, dbt, Data Modeling (Kimball / Star Schema).

**Programming & Scripting:** Python, SQL (Advanced), Jinja, DAX.

**Orchestration & DevOps:** Prefect, Git, Docker, AWS.

**BI & Data Applications:** Power BI, Streamlit.

## EXPERIENCE

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### RESRG Automotive

Liria, Spain (Hybrid)

*Analytics Engineer*

*Jan 2025 - Present*

- Architected near real-time analytical models for a Warehouse Management System (WMS) processing 800M+ rows in Snowflake, partnering with Data Engineers on upstream Fivetran HVR replication to trigger event-driven orchestrations via Prefect upon ERP/CMS data landing.
- Implemented strict incremental loading strategies in SQL, reducing stock management data load times by 95%, while automating complex supply policy calculations and role-based inventory logic.
- Replaced manual Excel trackers with automated, self-serve data products (Streamlit/Power BI) across NA/APAC and EMEA (20+ plants), serving as the primary executive summary for 200+ users.
- Built a custom KPI Governance App integrating dbt for modular SQL execution, ensuring high data reliability and testability, with pipeline observability via Prometheus.
- Optimized end-to-end data refresh pipelines via CI/CD, cutting runtime by ~98% and compute costs by ~90%, while establishing global data governance and testing practices for 130+ operational KPIs.

### Biomedical Data Science Lab (BDS Lab)

Valencia, Spain

*Data Scientist (internship)*

*Nov 2023 - Jul 2024*

- Developed an end-to-end Python framework and robust preprocessing pipelines to evaluate ML models, defining key ML metrics via XAI to ensure platform health and alignment with Trustworthy AI principles.

## EDUCATION

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### Universitat Politècnica de València (UPV)

Valencia, Spain

*MSc, Data Analysis, Process Improvement and Decision Support Engineering*

**Coursework:** Predictive Analytics, Multivariate Statistics, Optimization, Decision Support.

### Universitat Politècnica de València (UPV)

Valencia, Spain

*BSc, Biomedical Engineering (ICT Specialization)*

**Honors:** Distinction for High Academic Performance (Top 25%). Thesis Grade: 10/10.

## CERTIFICATIONS

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- AWS Certified Data Engineer - Associate — *In Progress (Expected 2026)*
- dbt Core Certification — *In Progress (Expected 2026)*
- Cambridge C1 English (CEFR) — Score 194 (2024)