

Munich-based AI start-up Xplain Data implements its ObjectAnalytics database on Raspberry Pi 4 8 GB



Munich, Bayern Aug 2, 2023 ([IssueWire.com](https://www.issuewire.com)) - The efficiency of the software is not least shown by how well it runs on small hardware. Xplain Data is therefore pleased to announce that the latest version 2.1 of the ObjectAnalytics database can now also run on a Raspberry Pi 4 8 GB. With this, Xplain Data offers seamless coverage of the entire spectrum: from a small Raspberry to a server with 128 cores and more, the Xplain ObjectAnalytics database scales to analyze - as in the healthcare sector, for example - billions of prescriptions and diagnostics in seconds with regard to cause and effect.

Xplain Data's patented ObjectAnalytics database enables the integration of data from different sources in an object-centric view. This allows business objects to be viewed as a whole and gives customers a 360° view of their data.

ObjectAnalytics database enables a holistic view of the business object

In contrast to conventional relational databases, ObjectAnalytics stores all information about a business object in an object-centric data structure. This means that, for example, all information on a single patient is available in a single "object instance".

Thanks to this object-centric representation, complex queries that analyze relationships between different sub-objects can be executed at high speed. Algorithms that were previously complex to implement can now be easily applied. This opens up completely new possibilities for innovative and previously unthinkable analysis algorithms.

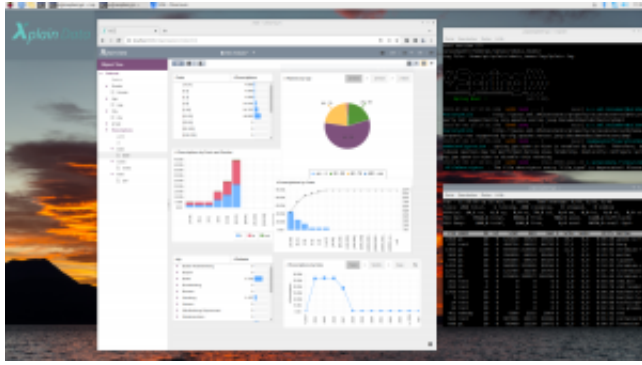
Scalable data integration and AI embedding: ObjectAnalytics enables diverse application scenarios

The ObjectAnalytics database allows data to be obtained from various sources and linked as sub-objects or even recursively. The current experiment on the Raspberry Pi impressively demonstrates the scalability of the Xplain Data technology, which covers a wide range of platforms from Raspberry Pi devices to high-performance clusters.

The software's ability to run on such small systems opens up the possibility of embedding small intelligent AI modules in a wide variety of environments - be it mobile devices, car control units, or server farms in Iceland.

"I am impressed with how well this tiny device works as a solid tool for testing and experimenting with various DevOp-related operations such as networking, provisioning, Docker, Kubernetes, and GraalVm, etc. on real physical Linux hardware," said Peide Wang, Chief Technology Officer Xplain Data.

With this successful deployment, Xplain Data GmbH is taking data-driven analytics to a new level and enabling users to also take advantage of the object-oriented database architecture on this cost-effective platform for a wide variety of IoT projects.



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