

Data + AI Summit 2021 全部超清 PPT 下载

Data + AI Summit 2021 于2021年05月24日至28日举行。本次会议是在线举办的,一共为期五天,第一、二天是培训,第三天到第五天是正式会议。本次会议有超过200个议题,演讲嘉宾包括业界、研究和学术界的专家,会议涵盖来自从业者的技术内容,他们将使用 Apache Spark™、Delta Lake、MLflow、Structured Streaming、BI和SQL分析、深度学习和机器学习框架来解决棘手的数据问题。会议的全部日程

请参见: https://databricks.com/dataaisummit/north-america-2021/sessions

DATA+AI SUMMIT 2021

ORGANIZED BY State databricks

如果想及时了解Spark、Hadoop或者HBase相关的文章,欢迎关注微信公众号:过往记忆大数据

按照惯例,这次会议的 KeyNote 部分数砖发布了一些新产品,比如 Delta Sharing、Delta Live Tables、Unity Catalog 等等。本次会议有些干货大家可以看下的。在接下来的几天,本公众号也会对一些比较有意思的议题进行介绍,敬请关注本公众号。

本次会议的议题范围具体如下:

- Apache Spark™, Delta Lake, MLflow, PyTorch, TensorFlow, Transformers 等最佳实践和用户案例;
- 数据工程,包括流架构
- 使用数据仓库(data warehouse)和数据湖(data lakes)进行SQL分析和BI;
- 数据科学,包括 Python 生态系统;
- 机器学习和深度学习应用

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下面议题提供 PPT 下载, 共186个。

- 10 Things Learned Releasing Databricks Enterprise Wide
- <u>5 Critical Steps to Clean Your Data Swamp When Migrating Off of Hadoop</u>
- A Collaborative Data Science Development Workflow
- A Fast Decision Rule Engine for Anomaly Detection
- A High Performance Mutable Engagement Activity Delta Lake
- A Practical Enterprise Feature Store on Delta Lake
- Accelerate Data Science Initiatives: Databricks & Privacera
- Accelerate Your ML Pipeline with AutoML and MLflow
- Accelerating Data Ingestion with Databricks Autoloader
- Advanced Model Comparison and Automated Deployment Using ML
- Advanced Natural Language Processing with Apache Spark NLP
- Advanced SQL For Data Scientists
- AI Data Acquisition and Governance: Considerations for Success
- AI Modernization at AT&T and the Application to Fraud with Databricks
- AI-Driven Personalized Email Marketing
- Analytics-Enabled Experiences: The New Secret Weapon
- Anomaly Detection at Scale!
- Architecting Agile Data Applications for Scale
- Architect's Open-Source Guide for a Data Mesh Architecture
- Automated Background Removal Using PyTorch
- Automated Metadata Management in Data Lake A CI/CD Driven Approach
- Automatic ICD-10 Code Assignment to Consultations
- Automating Data Quality Processes at Reckitt
- Auto-Train a Time-Series Forecast Model With AML + ADB
- Best Practices for Enabling Speculative Execution on Large Scale Platforms
- Bootstrapping of PySpark Models for Factorial A/B Tests
- BOTS TESTING BOTS: From manual to automated testing for conversational AI
- Bridging the Completeness of Big Data on Databricks
- Bring Your Own Container: Using Docker Images In Production
- Brokering Data: Accelerating Data Evaluation with Databricks White Label
- Build Large-Scale Data Analytics and AI Pipeline Using RayDP
- Build Real-Time Applications with Databricks Streaming
- Building a Data Science as a Service Platform in Azure with Databricks
- Building A Product Assortment Recommendation Engine
- Building an ML Platform with Ray and MLflow
- Building Data Quality pipelines with Apache Spark and Delta Lake
- Building Data Science into Organizations: Field Experience
- Building End-to-End Delta Pipelines on GCP
- Building Lakehouses on Delta Lake with SQL Analytics Primer
- Building Source of Truth Place Data at Scale
- Building the Artificially Intelligent Enterprise



- Building the Foundations of an Intelligent, Event-Driven Data Platform at EFSA
- Scaling AI At H&M
- Catch Me If You Can: Keeping Up With ML Models in Production
- ChakraView A 360° Approach to Data Quality
- Change Data Feed in Delta
- Choose Your Weapon: Comparing Spark on FPGAs vs GPUs
- CI/CD in MLOps Implementing a Framework for Self-Service Everything
- Code Once Use Often with Declarative Data Pipelines
- Commercializing Alternative Data
- Comprehensive View on Intervals in Apache Spark 3.2
- Configuration Driven Reporting On Large Dataset Using Apache Spark
- Considerations for Data Access in the Lakehouse
- Consolidating MLOps at One of Europe's Biggest Airports
- Conversational AI with Transformer Models
- Creating an 86,000 Hour Speech Dataset with Apache Spark and TPUs
- Creating Reusable Geospatial Pipelines
- Credit Card Fraud Detection Using ML In Databricks
- Customer Experience at Disney+ Through Data Perspective
- Data Discovery at Databricks with Amundsen
- Data Distribution and Ordering for Efficient Data Source V2
- Data Quality With or Without Apache Spark and Its Ecosystem
- Data Security at Scale through Spark and Parquet Encryption
- Databricks: A Tool That Empowers You To Do More With Data
- Deep Dive into the New Features of Apache Spark 3.1
- Degrading Performance? You Might be Suffering From the Small Files Syndrome
- Delight: An Improved Apache Spark UI, Free, and Cross-Platform
- Delivering Insights from 20M+ Smart Homes with 500M+ Devices
- Delta Lake Streaming: Under the Hood
- Democratizing Data Quality Through a Centralized Platform
- Detecting Anomalous Behavior with Surveillance Analytics
- DevOps for Databricks
- Drifting Away: Testing ML Models in Production
- Drug and Vaccine Discovery: Knowledge Graph + Apache Spark
- Drug Repurposing using Deep Learning on Knowledge Graphs
- Effective AIOps with Open Source Software in a Week
- Efficient Distributed Hyperparameter Tuning with Apache Spark
- Efficient Large-Scale Language Model Training on GPU Clusters
- Empower Splunk and other SIEMs with the Databricks Lakehouse for Cybersecurity
- Empowering Real Time Patient Care Through Spark Streaming
- Empowering Zillow's Developers with Self-Service ETL
- Entity Resolution Using Patient Records at CMMI
- Experimentation to Industrialization: Implementing MLOps
- Extending Machine Learning Algorithms with PySpark
- FlorenceAI: Reinventing Data Science at Humana
- From Chatbots to Augmented Conversational Assistants
- From Vaccine Management to ICU Planning: How CRISP Unlocked the Power of Data



During a Pandemic

- FrugalML: Using ML APIs More Accurately and Cheaply
- Fully Utilizing Spark for Data Validation
- Funnel Analysis with Apache Spark and Druid
- Gain 3 Benefits with Delta Sharing
- Gender Prediction with Databricks AutoML Pipeline
- Getting Started with Databricks SQL Analytics
- Giving Away The Keys To The Kingdom: Using Terraform To Automate Databricks
- Graph-Powered Machine Learning
- Growing the Delta Ecosystem to Rust and Python with Delta-RS
- How Adobe uses Structured Streaming at Scale
- How Machine Learning and AI Can Support the Fight Against COVID-19
- How to Build a ML Platform Efficiently Using Open-Source
- How to use Apache TVM to optimize your ML models
- How We Optimize Spark SQL Jobs With parallel and sync IO
- How We Scaled Bert To Serve 1+ Billion Daily Requests on CPU
- Hybrid Apache Spark Architecture with YARN and Kubernetes
- Hyperspace for Delta Lake
- Image Processing on Delta Lake
- Importance of ML Reproducibility & Applications with MLfLow
- Improving Apache Spark for Dynamic Allocation and Spot Instances
- Improving Power Grid Reliability Using IoT Analytics
- Infrastructure Agnostic Machine Learning Workload Deployment
- Intro to Delta Lake
- Introducing Delta Live Tables: Make Reliable ETL Easy on Delta Lake
- Intuitive & Scalable Hyperparameter Tuning with Apache Spark + Fugue
- Jeeves Grows Up: An AI Chatbot for Performance and Quality
- Keeping Identity Graphs In Sync With Apache Spark
- KFServing, Model Monitoring with Apache Spark and a Feature Store
- Koalas: How Well Does Koalas Work?
- Large Scale Geospatial Indexing and Analysis on Apache Spark
- Large Scale Lakehouse Implementation Using Structured Streaming
- Learn to Use Databricks for Data Science
- Learn to Use Databricks for the Full ML Lifecycle
- Machine Learning CI/CD for Email Attack Detection
- Machine Learning with PyCaret
- Magnet Shuffle Service: Push-based Shuffle at LinkedIn
- Managing Millions of Tests Using Databricks
- Managing R&D Data on Parallel Compute Infrastructure
- Massive Data Processing in Adobe Using Delta Lake
- Migrating ETL Workflow to Apache Spark at Scale in Pinterest
- Migrating Your Data Platform At a High Growth Startup
- Misusing MLflow To Help Deduplicate Data At Scale
- MLCommons: Better ML for Everyone
- MLflow Model Serving
- Model Monitoring at Scale with Apache Spark and Verta



- Modelling Customer Lifetime Revenue for Subscription Business
- Modernizing to a Cloud Data Architecture
- Modularized ETL Writing with Apache Spark
- Monitor Apache Spark 3 on Kubernetes using Metrics and Plugins
- Natural Language Query and Conversational Interface to Apache Spark
- NLP-Focused Applied ML at Scale for Global Fleet Analytics at ExxonMobil
- Northwestern Mutual Journey Transform BI Space to Cloud
- Object Detection with Transformers
- Observability for Data Pipelines With OpenLineage
- Offer Recommendation System with Apache Spark at Burger King
- Optimizing the Catalyst Optimizer for Complex Plans
- PandasUDFs: One Weird Trick to Scaled Ensembles
- Phar Data Platform: From the Lakehouse Paradigm to the Reality
- Play Head Time Analysis On OTT Video At Scale
- Portable UDFs: Write Once, Run Anywhere
- Predicting Optimal Parallelism for Data Analytics
- Processing Large Datasets for ADAS Applications using Apache Spark
- Productionalizing Machine Learning Solutions with Effective Tracking, Monitoring, and Management
- Productionizing Machine Learning in Our Health and Wellness Marketplace
- Productionzing ML Model Using MLflow Model Serving
- Radical Speed for SQL Queries on Databricks: Photon Under the Hood
- Raven: End-to-end Optimization of ML Prediction Queries
- Real-world Strategies for Debugging Machine Learning Systems
- Redis + Apache Spark = Swiss Army Knife Meets Kitchen Sink
- Re-imagine Data Monitoring with whylogs and Spark
- Role of Data Accessibility During Pandemic
- RWE & Patient Analytics Leveraging Databricks A Use Case
- Sawtooth Windows for Feature Aggregations
- Scaling and Modernizing Data Platform with Databricks
- Scaling and Unifying SciKit Learn and Apache Spark Pipelines
- Scaling AutoML-Driven Anomaly Detection With Luminaire
- Scaling Online ML Predictions At DoorDash
- Scaling Privacy in a Spark Ecosystem
- Scaling your Data Pipelines with Apache Spark on Kubernetes
- Semantic Image Logging Using Approximate Statistics & MLflow
- Simplify Data Conversion from Spark to TensorFlow and PyTorch
- Speed up UDFs with GPUs using the RAPIDS Accelerator
- SQL Analytics Powering Telemetry Analysis at Comcast
- Stage Level Scheduling Improving Big Data and AI Integration
- Structured Streaming Use-Cases at Apple
- Superworkflow of Graph Neural Networks with K8S and Fugue
- Tensors Are All You Need: Faster Inference with Hummingbird
- The Critical Missing Component in the Production ML Stack
- The Function, the Context, and the Data—Enabling ML Ops at Stitch Fix
- The Rise of Vector Data



- The Rise of ZStandard: Apache Spark/Parquet/ORC/Avro
- Towards Personalization in Global Digital Health
- Unified MLOps: Feature Stores & Model Deployment
- Video Analytics At Scale: DL, CV, ML On Databricks Platform
- Weekday Demand Sensing at Walmart
- What's New with Databricks Machine Learning
- Why APM Is Not the Same As ML Monitoring
- Wizard Driven AI Anomaly Detection with Databricks in Azure
- You Can Do It in SQL

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