

■ Data Engineering Services

Building modern data platforms, pipelines, and AI-ready infrastructure

Techbar empowers **product-driven organizations** to turn fragmented data into **actionable insights and AI-ready platforms.**

We partner with **data and product teams** to design and build **modern data architectures, streamline pipelines,** and enable analytics & machine learning.

Data Engineering at Techbar

30+

Data pipelines delivered annually

3+

New data platforms launched each year

4+

TB of data processed daily across active client platforms

5

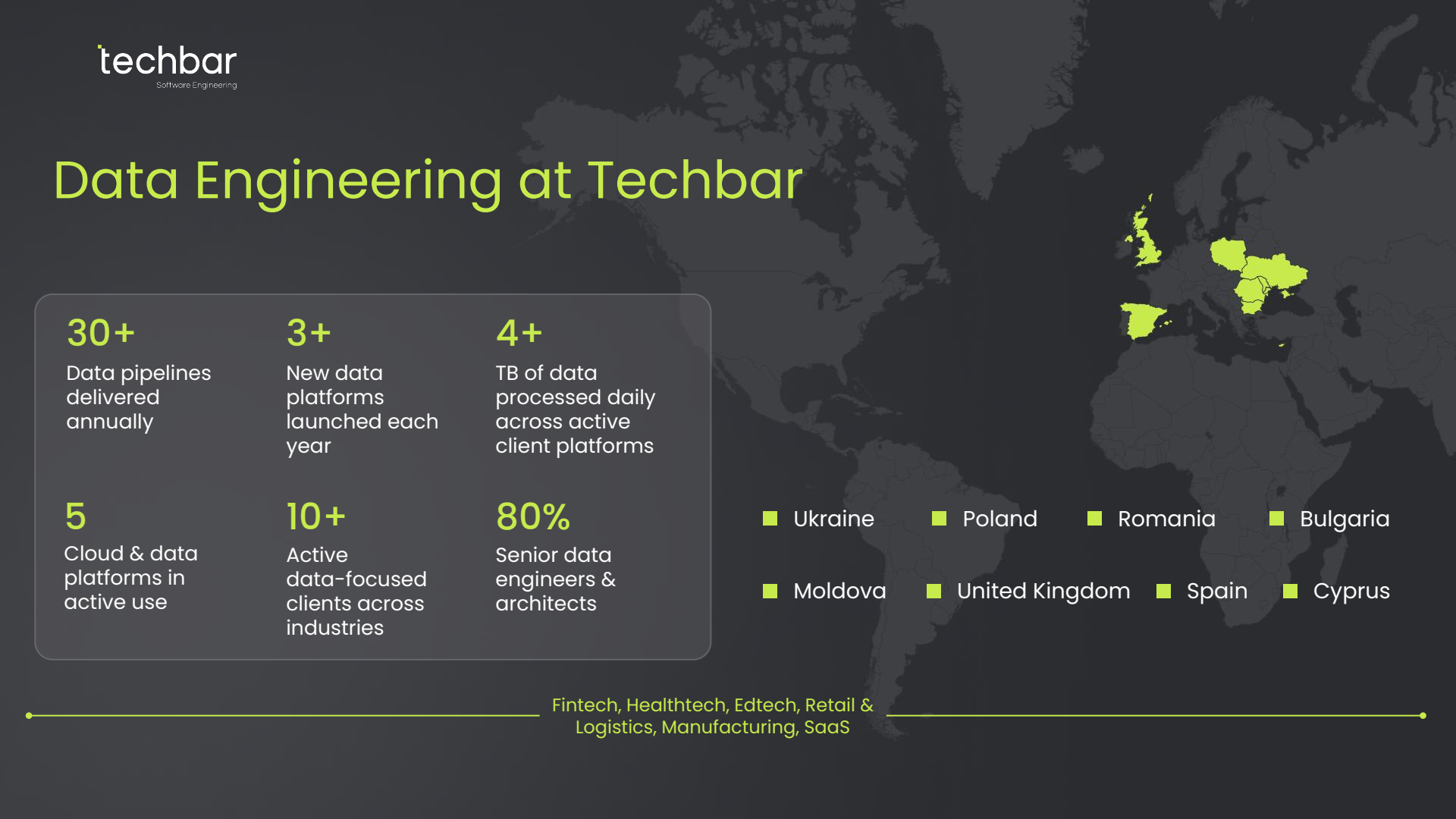
Cloud & data platforms in active use

10+

Active data-focused clients across industries

80%

Senior data engineers & architects

- 
- Ukraine
 - Poland
 - Romania
 - Bulgaria
 - Moldova
 - United Kingdom
 - Spain
 - Cyprus

Unlock the value of data with Insights & Analytics

Address key challenges to enable a Live & Connected Data Driven Enterprise delivering business outcomes



Data Silos

Fragmented data across ERP, CRM, POS, marketing



Outdated Pipelines

Slow, manual ETL, high maintenance costs



Lack of Governance

Unclear lineage, no single source of truth



Data Quality Issues

Inconsistent, duplicated, or incomplete data



Missed AI Opportunities

No platform readiness for ML/AI use cases

Key Challenges

Unlock data's potential by building modern, cloud-native platforms and pipelines that consolidate, clean, and prepare data for analytics and AI.

How we can help

Unified Data Sharing

Single source of truth, increased data literacy.

Modern Data Architectures

Scalable cloud platforms, latest tools.

Data Access & Reuse

Governed access, API-first design.

Data Quality & Compliance

Automated checks, lineage tracking, regulatory compliance.

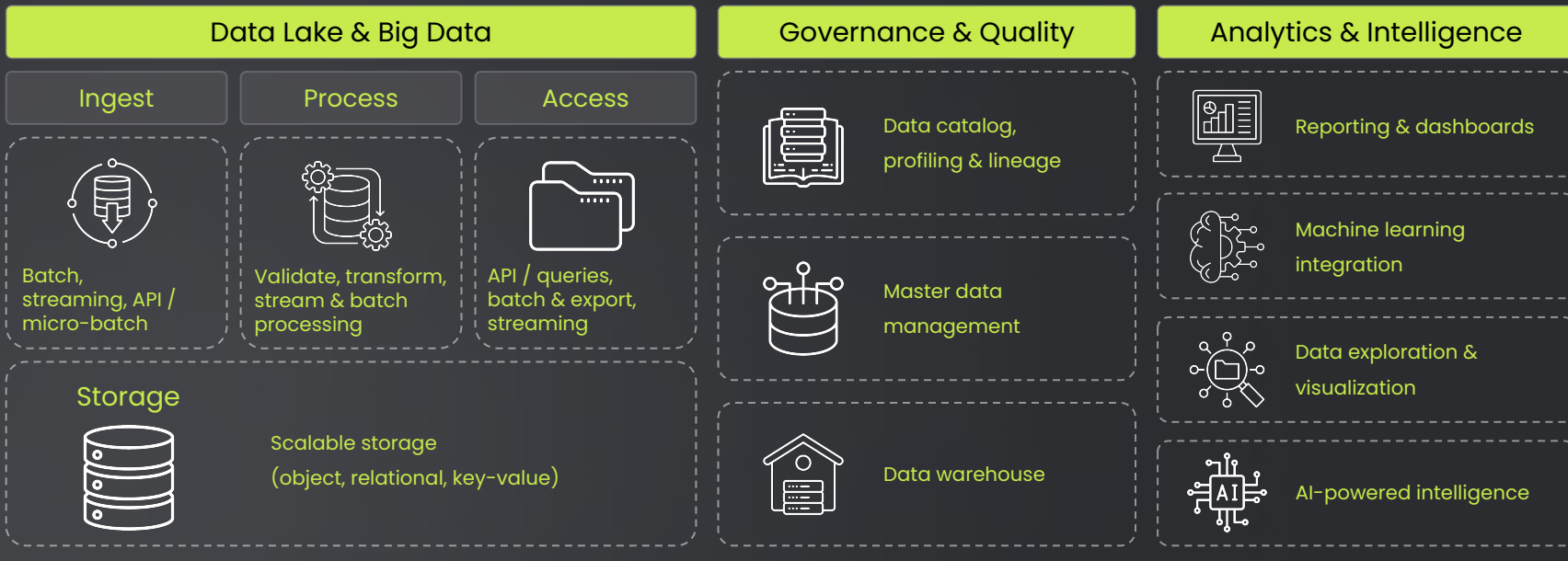
Data as a Product

Product mindset for data, continuous improvement, AI-ready foundation.

Benefits

Data Platform Engineering

We enable critical capability areas of a modern Data Platform, either end-to-end or as a part of existing client ecosystems.



Tech Stack & Tools: AWS | Azure | GCP | Snowflake | BigQuery | Databricks | Kafka | Airflow | dbt | Kubernetes | PowerBI | Tableau **and much more**

Enabling Modern Businesses with Data & AI

01

Unlock the value of your
data

**Building Reliable Data
Platforms**

Scalable cloud data lakes &
warehouses enabling trusted
insights

02

Operationalize machine
learning

Practical MLOps

Streamlined pipelines for
training, deploying, and
monitoring ML models

03

Enhance products with
AI

Applied AI & Analytics

Personalization, forecasting,
and intelligent automation for
real business impact

What makes our team stronger

Our certifications validate hands-on expertise in **cloud infrastructure and deployment** — driving **real-world, enterprise-grade solutions**.

Cloud



AWS Certified
Solutions Architect
Professional



Google Cloud
Certified —
Professional Cloud
Architect



Azure Solutions
Architect Expert

DevOps & Infra



AWS Certified
DevOps Engineer —
Professional



Certified Kubernetes
Administrator



HashiCorp
Terraform Associate
Certification

ML/AI



Google Cloud
Professional
Machine Learning
Engineer



AWS Certified
Machine Learning —
Specialty



Microsoft Certified:
Azure AI Engineer
Associate

Data



Databricks Data
Engineer
Professional



Google Data
Engineer
Professional



Azure Data Engineer
Associate

Data & AI Solutions Across Industries

We help organizations in different industries unlock the value of their data with scalable, integrated, and intelligent solutions.



Cross-Industry SaaS Platforms

Building multi-tenant data platforms, usage analytics, and embedded ML for SaaS products.



Retail & Logistics

Solutions for demand forecasting, inventory optimization, customer analytics, and recommendation engines.



Financial Services

Data warehouses and ML pipelines for risk scoring, fraud detection, reporting, and client portfolio insights.



Manufacturing & Industrial

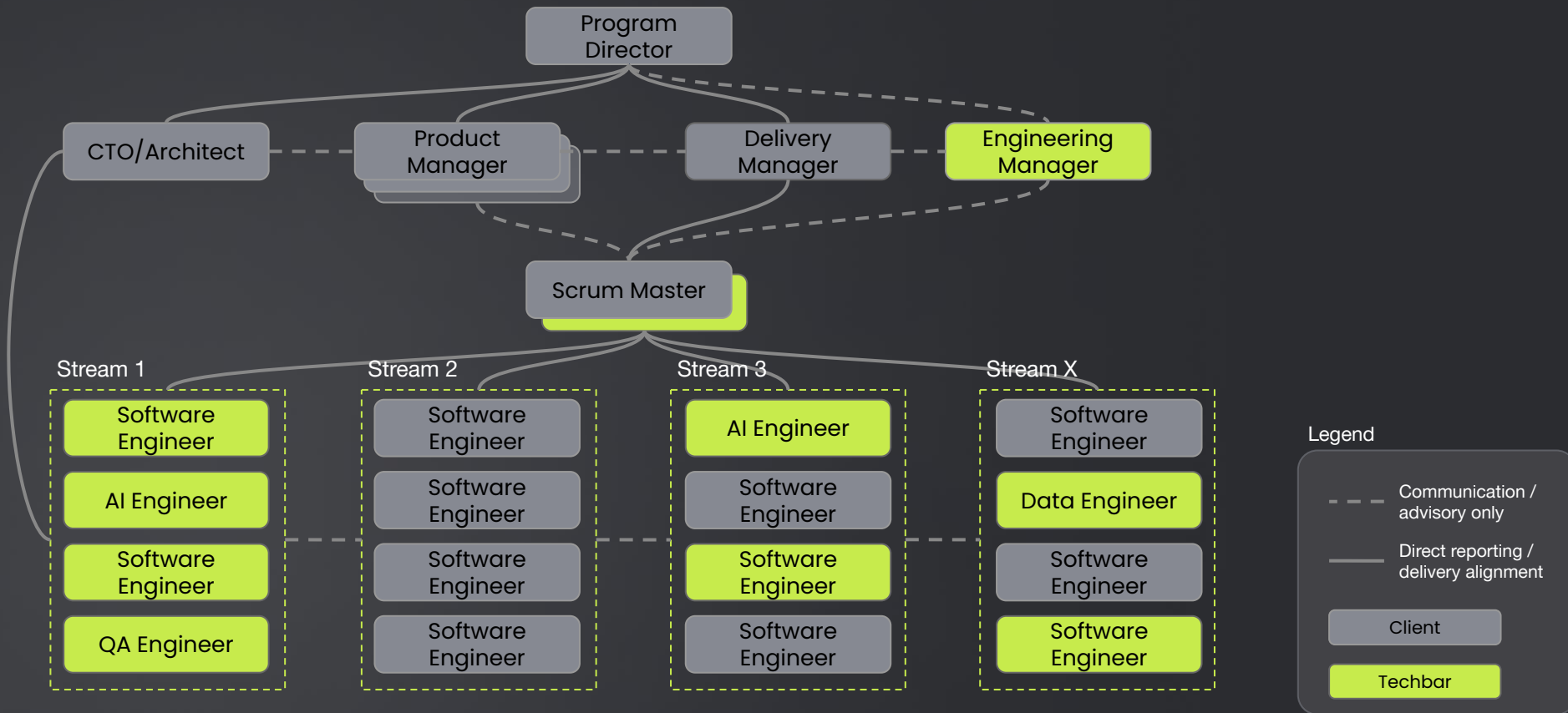
IoT data ingestion and analytics, predictive maintenance, supply chain & production forecasting.



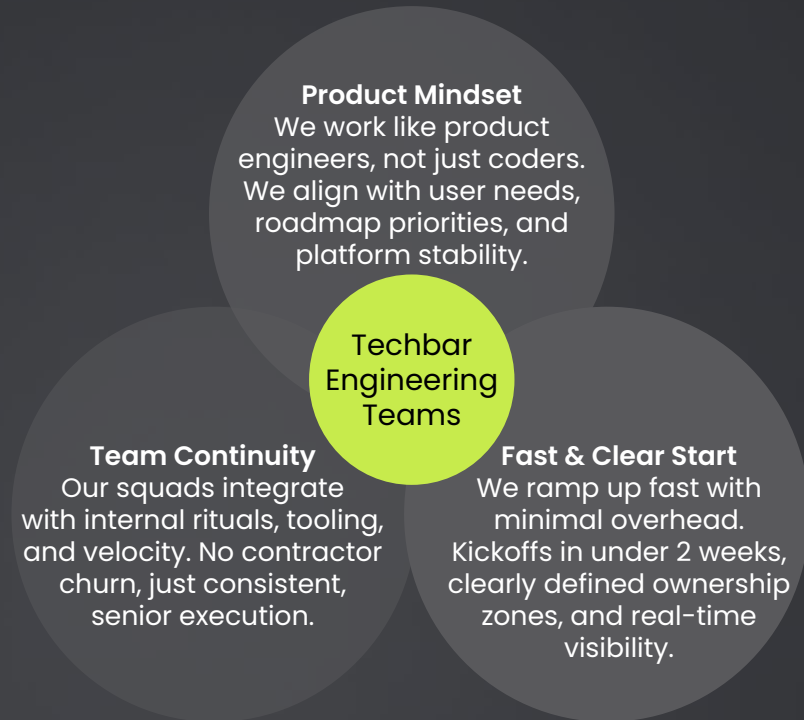
Healthcare

Platforms for patient data integration (EHR), clinical analytics, and AI-assisted diagnostics.

How we integrate with your team



Why Techbar Engineering Teams?



Techbar provides senior-led engineering squads that embed directly into the product or platform team, working as an extension of your internal capability.

Unlike traditional outsourcing, we focus on product thinking, and team continuity.



Engagement models

One team. Multiple ways to work together. Whether you need extra hands or full ownership, we adapt to your workflow, not the other way around.

Model	Use case	Commitment
Staff Augmentation	You need extra hands quickly	Flexible
Dedicated Teams	You need a team to build	Sustained
End-to-End Delivery	We fully own the process	Structured

How We Engage

End-to-End Delivery

We own the entire product lifecycle.

What happens

- We run Discovery, Architecture, UX, and Planning
- Execute implementation, QA, release, and knowledge transfer
- You get a working system, delivered incrementally

Typical Deliverables

- Technical blueprint (architecture doc, data model)
- Backlog with user stories and acceptance criteria
- Production-ready codebase with CI/CD
- Migration scripts, runbooks, support checklists
- Handover & training

Dedicated Teams

Cross-functional units focused on specific product or system goals.

What happens

- We form a full team (e.g., FE, BE, QA, PM, DevOps) aligned with your roadmap
- Team operates semi-independently with shared ownership
- Techbar manages hiring, onboarding, and velocity tracking

Typical Deliverables

- Working software, Sprint demos, burndown charts, velocity reports
- Design artifacts (Figma, diagrams)
- CI/CD pipelines, release notes
- QA plans, documentation

Staff Augmentation

Extend your existing team with hands-on engineers.

What happens

- We match vetted specialists to your stack and workflow
- Engineers integrate directly into your daily rituals (stand-ups, code reviews, sprint planning)
- Focused on productivity, quality, and long-term fit

Typical Deliverables

- Contributed features and fixes within your repositories
- Technical documentation and PRs
- Performance reviews and time reports (if needed)
- Optional L2/L3 support responsibility

Outcome-driven delivery model

How we work

- Agile from day one
- Transparent planning & reporting
- Shared ownership across teams

1

Discovery

We align on goals, scope, and team structure

2

Team Setup

We onboard the right talent – fast and with purpose

3

Delivery

We build iteratively, focusing on speed and real value

4

Support

We stay with you to help you scale and improve

Transforming an Enterprise Data & Compliance Platform

Opportunity

A Global Financial Services Provider needed to modernize their existing Data & Compliance Platform to:

- Accelerate migration from legacy solutions
- Standardize data pipelines across the enterprise
- Improve stability and transparency of workflows
- Reduce time-to-integrate new data sources

Value created

- Designed and optimized Airflow DAGs to orchestrate critical services
- Automated ingestion and transformation using Spark and dbt
- Implemented partitioning and schema evolution strategy to reduce migration errors
- Integrated monitoring and alerting systems for stronger data quality controls
- Delivered new ETL/ELT pipelines supporting both batch and real-time loads

Impact

- Faster data refresh cycles and reporting
- More reliable and scalable architecture
- Reduced number of production incidents
- Accelerated launch of new analytics products



Transforming an Enterprise Data & Compliance Platform



Technical Implementation

- Automated orchestration with Airflow DAGs
- Data transformation and processing with Spark + dbt
- Optimized partitioning strategies for CRM and domain data
- Iceberg and S3 for scalable storage and metadata management
- CI/CD integration for data pipelines



Engineering Management

- Cross-functional teams for Foundation and Business Services
- Agile delivery with Scrum, QA validation, and regular releases
- Close collaboration with client domain experts
- Transparent reporting and Jira-based prioritization



Technologies Used

AWS | Terraform | Kubernetes | Airflow | Spark | dbt | Iceberg | S3 | Glue | Athena | Looker | Tableau



Building a Modern Big Data Platform

Opportunity

A Retail & Consumer Analytics Provider needed to modernize its big data platform to:

- Scale personalized digital campaigns across online and in-store channels
- Improve performance and reduce time-to-market for new campaign types
- Migrate from legacy components to modern data engineering tools

Value created

- Developed and maintained the core big data platform for personalized media
- Migrated orchestration from Oozie to Airflow for flexibility and reliability
- Optimized processing with Spark, Databricks, Hive, and NiFi
- Improved campaign performance through better data access and search
- Established CI/CD pipelines with Azure DevOps

Impact

- Enabled new campaign scenarios driving measurable revenue growth
- Supported large-scale data feeds and millions of daily impressions
- Improved scalability and system resilience for future growth



Building a Modern Big Data Platform



Technical Implementation

- Data storage with ADLS & HDFS
- Orchestration with Azure Data Factory & Airflow
- Processing pipelines with Apache Spark, Databricks, Hive, NiFi, Scoop
- Search and indexing with SOLR
- Distributed processing via Hadoop & distcp
- CI/CD with Azure DevOps



Engineering Management

- Agile delivery with cross-functional teams
- Focus on risk reduction during migration and performance tuning
- End-to-end DevOps integration with automated testing and monitoring



Technologies Used

Azure Data Lake | Azure Data Factory | Azure Databricks | Azure DevOps | Apache Spark | Hive | Hadoop | HDFS | Airflow | NiFi | Scoop | distcp | SOLR | Scala



techbar
Software Engineering

“ We’re not just building a delivery pipeline, we build engineering partnerships.

Our goal is to be the team you trust with both your code and your roadmap.

- Long-term mindset
- Product thinking
- Real ownership



Ready to build?

Let's connect and explore how we can help.

No back-and-forth delays — just direct, hands-on collaboration.

Email

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VP of Partnerships

Maria Tolkacheva

