

**Kranthi K – Data Engineering, AI & ML Leader, Entrepreneur**  
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Accomplished data engineering and ML leader with a proven track record of driving strategic initiatives and delivering transformative solutions. Proficient in designing and implementing modern data architectures, leading high-performing teams, and fostering innovation through startup ventures. Adept at leveraging technical expertise and entrepreneurial spirit to optimize business intelligence, advanced analytics, and machine learning initiatives at scale.

## Projects & Achievements:

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### Technical Projects:

- **Real-Time Analytics Platform:** Led development using Kafka and Spark Streaming, reducing data latency from hours to seconds.
- **Core Business Data Pipeline:** Generated \$1 billion in revenue insights, enhancing company-level analytics and decision-making.
- **Legacy Pipeline Migration:** Migrated pipelines from Snowflake to Apache Spark with Delta Lake, saving \$1M in costs.
- **Data Quality Frameworks:** Established robust frameworks with Spark, ensuring high data accuracy and reliability.
- **Data Observability Product:** Enhanced New Relic, improving company revenue by 5%.
- **ML Model for Marketing Strategy:** Developed a graph-based ML model to understand LinkedIn relationships, aiding business promotion.
- **Anomaly Detection ML Model:** Built a model to improve system reliability and security by identifying data anomalies.
- **Text-to-SQL AI Agentic Workflows:** Implemented in New Relic, reducing analytics and data engineering development time by 80% and improving business analytics for company insights.

### Management & Leadership:

- **Team Building:** Assembled and optimized a high-performing team, increasing output by 75% and project efficiency by 60%.
- **Mentorship and Promotion:** Fostered career growth, resulting in a data engineer's promotion.
- **Client Satisfaction:** Enhanced data solutions, improving client satisfaction by 60%.
- **Error Reduction:** Reduced data-related errors by 40% through robust quality measures.
- **Cost Optimization:** Achieved a 75% reduction in cloud infrastructure expenses while maintaining performance.

### Startup Innovation:

- **KIDERA Startup:** Founded an educational network for children, attracted 1,000 users, and gained entrepreneurial insights.
- **TrueTrip Startup:** Founded and developed a travel platform specializing in airfares, with a primary focus on the Asia region. Achieved a revenue of \$100K within the first year of operation and successfully sold the platform to another agent thereafter.

## Education:

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- **Masters in Information Technology** - University of New England (Sydney, Australia)

## Certifications:

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- Structuring Machine Learning Projects (Stanford University)
  - Deep Learning Specialization (Stanford University)
  - Entrepreneurship Specialization (Wharton Business School)
  - Business Intelligence Solution Expert (Microsoft)
  - Data Management and Analytics Solution Expert (Microsoft)
  - Dbt Certified Developer

## Technical Skills:

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- **Cloud Services:** Azure and AWS
  - **Languages:** Shell, Python, Scala, SQL.
  - **Big Data:** Hadoop/Hive/Spark/Sqoop/Databricks/ Apache Airflow
  - **Machine Learning:** Deep Learning, Computer Vision, Supervised learning, Unsupervised learning, and Large Language Models.
  - **Analytics:** PowerBI, Tableau.
  - **OpenSources:** Apache Flink, Kafka, Iceberg, Hugging Face.
  - **Project Management:** JIRA & Monday.com

## Professional Experience:

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### Director, Data Engineering, AI & ML - New Relic

(Dec 2021 – current)

- Led a team of 25 (Including Managers) to design and implement modern data architecture supporting BI, advanced analytics, and ML initiatives.
- Migrated data infrastructure to AWS, reducing processing costs by 60% and increasing speed by 150%.
- Implemented data governance frameworks, enhancing data quality, security, and compliance.
- Developed data-driven solutions, boosting customer retention by 60%.
- Integrated real-time data processing with Kafka and Spark Streaming, enabling faster decision-making.
- Developed a core business data pipeline generating \$935M in revenue insights.
- Built data quality and integration testing frameworks with Spark, ensuring high accuracy.
- Migrated legacy pipelines to Apache Spark with Delta Lake, saving \$1M in costs.
- Created a Data Observability product, enhancing New Relic and increasing revenue by 5%.
- Built and optimized a high-performing team, accelerating deliverables and improving data quality.

### Founder & CEO - KIDERA INC

(Dec 2019 – Jan 2022)

- Founded KIDERA, built a prototype, and attracted 1,000 users.
- Interviewed with Y Combinator, demonstrating strong entrepreneurial spirit and innovation.
- Gained valuable insights in startup development, user acquisition, and product management.

**Senior Manager, Data Science & Engineering - Signify Health**

**(Apr 2019 – Nov 2021)**

- Led a team of 16 in managing an Enterprise Data Warehouse using SQL Server, MySQL, Big Data, and CosmosDB.
- Architected a project delivering \$300M annually via Azure and Databricks.
- Resolved data load bottlenecks, achieving a 250% faster processing time.
- Configured multi-node Kafka clusters for real-time streaming.
- Implemented analytics using Spark API and real-time data processing with Azure Stream Analytics.
- Developed a Modern DW solution using Azure Snowflake and Azure Synapse.
- Managed Azure subscriptions and resources, ensuring security and compliance.

**Founder & CEO - TrueTrip**

**(Dec 2017 – Jan 2019)**

- Founded TrueTrip, generating \$100K in the first year and successfully selling the company.

**Business Intelligence Manager - Black Knight Financial Service**

**(Mar 2014 – Mar 2019)**

- Led and mentored a team, managing project schedules and setting performance goals.
- Migrated data to Azure SQL Data Warehouse using Azure Data Factory.
- Developed predictive analytics solutions with Azure Machine Learning.

**Business Intelligence Architect - Black Knight Financial Service**

**(Mar 2011 – Mar 2014)**

- Designed a multi-dimensional data model (STAR Schema).
- Created ETL architecture focusing on data quality and consolidation.
- Developed reports and multiple cubes with SQL Server Analysis Services (SSAS).

**SQL Server DBA - Fidelity National Financial Service**

**(Mar 2007 – Mar 2011)**

- Designed and supported database servers, managing data migration and SQL clustering environments.
- Handled database backups and disaster recovery planning