Nikhilvarma Kandula

Data Analyst & Engineer | M.Sc. Big Data & Business Analytics |
Ex-Lead Developer | Making the complicated simple through Data

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Professional Profile

Data Analyst & Engineer and Master's in Big Data & Business Analytics. Result-driven professional with 1.5+ years of experience in leading digital transformations for Fintech intelligence platforms. Expert at bridging the gap between complex data engineering and C-suite actionable insights. Specialized in LLM orchestration, predictive modeling, and building high-performance data pipelines that reduce technical debt by 40% and accelerate BI reporting by 50%.

Education

10/2025 – Present	**M.Sc. in Big Data & Business Analytics**
	FOM University of Applied Sciences for Economics and Management, Germany
02/2026	**Professional Certificate**
	Google Data Analytics

Professional Experience

10/2024 – 12/2025	**MicroIntech**
USA	Data Engineer & Lead Developer (Fintech)

- Spearheaded Digital Transformation: Orchestrated the migration of legacy financial systems into API-agnostic microservices, reducing technical debt by 40% and cutting Business Intelligence (BI) reporting lead time by half.
- Architected Data Pipelines: Designed event-driven pipelines using Python (Pandas/NumPy) for a platform supporting 500+ concurrent users, ensuring 100% data integrity for critical financial decision-making.
- AI & LLM Orchestration: Engineered secure RESTful APIs integrated with GPT-4/Llama workflows to automate financial audits, eliminating 40% of manual operational effort and saving 15+ engineering hours per week.
- Infrastructure Optimization: Leveraged Google Firebase (Firestore) to minimize latency in high-frequency transaction monitoring, achieving a 25% reduction in data lag for real-time market response.
- Leadership & Agile: Mentored a cross-functional team of 5+ engineers, slashing production-level bugs by 15% and increasing overall sprint velocity through systematic code reviews and a "Data-First" culture.

Key Projects

Rainfall Estimation via Heterogeneous Data Fusion & ML

- Task: Engineered a pipeline integrating Ground Sensors, Weather Radars, and Meteosat imagery.
- Action: Developed a Hierarchical Probabilistic Ensemble Classifier (HPEC) using Random Forest and meta-learner stacking.

- Result: Achieved 0.58 POD, outperforming industry-standard KED for scalable flood/landslide risk alerts.

Fintech Real Estate Platform: Intelligence System
- Action: Architected a real-time property allocation engine supporting 500+ concurrent users.
- Result: Optimized cloud infrastructure to achieve a 25% reduction in data latency.

Skills

Data Languages & Tools: Python (Pandas, NumPy), SQL, BigQuery, Spark, Google Firebase, AWS, GCP.

Analytics & Machine Learning: Random Forest, SVM, Deep Learning, Spatiotemporal Analysis, Statistical Data Analysis, ETL, Data Modeling.

AI & Modern Tech: LLM Orchestration (GPT-4, Llama), Prompt Engineering, API Security, React.js, Microservices.

Process: Agile/Scrum, SDLC, Digital Transformation, Business Intelligence (BI).

Languages

English: Verhandlungssicher (C1 - Fluent)

German: Grundkenntnisse (A2 - Progressing)

Telugu/Hindi: Muttersprache (Native)

Nikhilvarma Kandula
Essen, February 21, 2026