

Dear Hiring Team,

I am writing to express my interest in the Analyst (Data Analytics) role at American Express. With a strong foundation in AI/ML, Data Engineering, and Cloud-native solutions, I bring end-to-end capabilities — from building robust data pipelines to deploying production-grade ML models. I am particularly drawn to American Express' innovative approach in financial services and fraud detection, and I believe my hybrid skill set aligns well with your mission.

During my final year at GJUST, Hisar, I've architected and deployed multiple real-time AI systems leveraging Apache Kafka, PySpark, Azure ML, PostgreSQL, and transformer-based NLP models. I've built scalable pipelines that ingest, process, score, and persist streaming data with end-to-end automation. Notably, I designed a Fraud Detection System using Kafka, Spark, Azure Data Factory for ETL, and deployed a Random Forest model via Azure ML endpoints, which I integrated with PostgreSQL for data persistence. Additionally, I built a Fake News Detection pipeline using DistilBERT for text embeddings combined with XGBoost for classification, all orchestrated with Kafka, Spark, and FastAPI, and hosted on PostgreSQL for data storage.

I am also experienced in vectorizer tuning, REST-based model deployment, structured data handling, and multi-modal monitoring of inference pipelines. With an emphasis on production readiness, I ensure models are not just accurate — but robust, traceable, and reproducible.

I'm excited to bring my skills to a mission-driven team where I can contribute to impactful AI products at scale. I'd welcome the chance to discuss how my projects and goals align with your current initiatives.

Thank you for your time and consideration.

Warm regards,

Sunny Yadav

[\[LinkedIn\]](#) | [\[GitHub\]](#) | [\[Email\]](#) | [\[Phone\]](#)