

SRAVYA KODAVATIGANTI

Business Intelligence Engineer

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PROFESSIONAL SUMMARY

Business Intelligence and Data Engineer with 4+ years of experience in the financial services domain, delivering data-driven solutions for global banking and asset management clients. Proven success in designing cloud-native ETL pipelines, building executive dashboards, and deploying AI powered automation for reporting and fraud detection. Skilled in data governance, regulatory compliance, and credit risk analytics, with a strong track record of driving measurable impact through Azure, Power BI, Python, and Hadoop-based solutions. Adept at aligning technical strategy with business goals and leading cross-functional teams to success.

SKILLS

- **Languages & Libraries:** Python, SQL, Bash, Pandas, NumPy, Scikit-learn, Matplotlib
- **Cloud & Big Data Platforms:** Microsoft Azure (Data Factory, Synapse, Data Lake), Hadoop, Apache Oozie, MapReduce
- **Data Engineering & ETL Tools:** ETL Pipelines, Airflow, Azure, Apache Spark, Schema Modeling, Data Reconciliation & Warehousing
- **Business Intelligence & Visualization:** Power BI, Tableau, Dashboard Development, KPI Monitoring, Reporting Automation
- **AI & Machine Learning:** Retrieval-Augmented Generation (RAG), Anomaly Detection, CNN Models, Forecasting Models
- **Data Governance & Compliance:** Data Quality Frameworks, Financial Data Integration, Regulatory Compliance, Audit Readiness
- **DevOps & Tools:** Git, Jenkins, Docker, Azure DevOps, VS Code, Jupyter Notebook, Postman, Power BI REST API
- **Soft Skills & Methodologies:** Agile Delivery, Cross-Functional Collaboration, Stakeholder Engagement, SDLC, Scrum

EXPERIENCE

Northern Trust | Business Intelligence Engineer **Jun 2024 – Current | USA**

- Led the end-to-end design and rollout of a **Generative AI** solution powered by **RAG**, automating quarterly financial report summaries and helping asset-servicing teams cut review time by **33%** while making the entire process smoother and easier to manage.
- Led the migration of high-volume financial pipelines from legacy systems to **Azure Data Factory**, cutting data ingestion latency by **42%** and enabling near real-time dashboards used for compliance and risk monitoring by executive **stakeholders**.
- Built and deployed a suite of interactive **Power BI** and **Tableau** dashboards for monitoring **KPIs** across wealth management functions, improving decision-making efficiency by **24%** and increasing allocation accuracy by **15%** through better visibility.
- Integrated a **GenAI** based anomaly detection model into BI workflows to identify suspicious transactions early, **strengthening fraud controls** and reducing review cycles by **20%** across high-value institutional accounts.
- Engineered **SQL** and **Python** based data quality pipelines to automate reconciliation for custodial and trading data, achieving **99.9%** reporting accuracy and ensuring data integrity for regulatory submissions and internal audit reviews.

Accenture | Data Engineer (Project for a North Carolina based Banking Client) **Aug 2020 – Aug 2023 | India**

- Developed and maintained robust **ETL/ELT** pipelines using **Python** and **SQL** to consolidate data from **15+ siloed financial systems**, enabling unified insights across transactions, customer profiles, and risk events within the bank’s core systems.
- Designed a scalable **star-schema data model** for credit risk reporting that powered predictive analytics dashboards and enabled **granular loan performance tracking**, directly contributing to improved risk segmentation and loss mitigation planning
- Collaborated with risk and compliance teams to implement a data governance framework, including validation scripts that reduced reporting discrepancies by **63%**, ensuring alignment **with U.S. federal banking regulations**.
- Optimized over **100 T-SQL** stored procedures and scheduled queries, resulting in a **64%** reduction in batch data processing time, accelerating delivery of monthly reports for capital adequacy and operational risk assessment.
- Automated the end-to-end data validation and extraction process for financial forecasting models, saving **23+ hours per week** for the finance team and enabling more frequent and accurate cash flow forecasting.

EDUCATION

Master of Science in Computer Science
New Jersey Institute of Technology, USA Sept 2023 - May 2025

Bachelor of Science in Computer Science
Stanley College of Engineering & Technology for Women, India Aug 2017 – Jul 2021

ACADEMIC PROJECTS

Big Data Reporting & ETL Optimization

- Built MapReduce workflows using Apache Oozie, improving ETL data throughput by 45% across 3 reporting pipelines
- Designed Tableau dashboards for 5+ operational KPIs, increasing visibility and reducing escalation time by 30%.

GenAI-Ready Image & Data Processing

- Enabled remote diagnostics for 1,000+ users, reducing in-person consultations by 35% in 2 months
- Boosted diagnostic accuracy by 10% by refining data pipelines and aligning output with clinician feedback.