Sai Teja Bandaru

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Professional Summary

Data Analyst focused on fraud detection and BI, combining ML, SQL, and dashboarding to deliver measurable business outcomes. Improved fraud-screen accuracy by **15%** on **1M+** transactions and cut reporting cycles **30%** with **Tableau/Power BI** dashboards adopted by **5+** departments. Led analyses on **12M+** mobility records to guide resource allocation. Experienced with ETL and **Generative AI** to automate data prep (**40%** preprocessing time).

Technical Skills

- **Programming:** Python (pandas, NumPy, scikit-learn), R, SQL (PostgreSQL, MySQL)
- **Data & ML:** Clustering, Anomaly Detection, Nonparametric Analysis, Feature Engineering
- **BI & Analytics:** Tableau (LOD, parameters), Power BI (DAX), Excel (Power Query)
- **Pipelines & Cloud:** ETL, Data Governance, Git, Spark, Hadoop, Dask, AWS (S3/Redshift), GCP BigQuery

Experience

- **Analyst Intern**   Jul 2024 – Nov 2024
  University of Campania "Luigi Vanvitelli"   *Caserta, Italy*
  - Built ML clustering models (**Python, SQL**) to flag anomalies in **1M+** transactions; improved fraud-screen accuracy by **15%** and reduced false positives by **20%**, cutting investigation time per case.
  - Designed and rolled out **Tableau/Power BI** dashboards with **5+** dept adoption; standardized KPIs (fraud alerts, transaction anomalies, reporting latency) and cut cycles by **30%**.
  - Analyzed **12M+** NYC Taxi trip records to uncover high-demand zones; enabled city planners to optimize transport routes and allocate resources more efficiently.

Projects

- **Clinical Data Pipelines** — Built nonparametric inference workflows that improved statistical reliability of clinical trial results, enabling more accurate insights for healthcare decision-making.
- **Generative AI for Data Engineering** — Automated ETL workflows using ChatGPT; reduced preprocessing time by **40%** and accelerated ingestion of structured/unstructured datasets for analytics teams.

Education

- **University of Campania "Luigi Vanvitelli"**   Dec 2021 – Nov 2024
  B.Sc. in Data Analytics (Expected)   *Caserta, Italy*
  - Thesis: Clustering Techniques for Fraud Detection and Urban Mobility
  - Relevant Coursework: Statistical Learning, Database Management, Machine Learning, Data Visualization

Certifications & Fellowships

- **GenAI Fellowship Program (2025)** — Focused on prompt engineering, ETL automation, retrieval-augmented generation, and evaluation methods.
- **Introduction to Risk Management** — Fundamentals of financial and operational risk analysis.
- Generative AI for Data Engineering: ChatGPT Power Tips
- Advanced Excel Certification
- Diploma in Computer Applications (DCA)