

ASHUTOSH JAYANT

Data Analyst | Python · SQL · Excel · Statistics · ETL

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SUMMARY

Data analyst working end-to-end on real government and global datasets: extracting data from official PDFs, building ETL and validation pipelines, and analysing results with Python, SQL and statistics. Recent work includes a 130-country development database, a 33-state competitiveness index and a Union Budget reconciliation closed to Rs 0.19 crore on a Rs 53.47 lakh crore base. Google-certified in data analytics.

TECHNICAL SKILLS

Languages & Databases: Python, SQL, SQLite (schema design, joins, CTEs, window functions, indexes, views)

Data Analysis: Pandas, NumPy, Excel — data cleaning, validation, reconciliation, missing-value handling

Visualisation: Matplotlib, Seaborn

Statistics & ML: Correlation, multiple regression, hypothesis testing, K-Means clustering (scikit-learn, statsmodels, SciPy)

ETL & Extraction: ETL design, schema standardisation, pdfplumber, PyMuPDF, Camelot, regex

Tools: Jupyter Notebook, VS Code, Git, GitHub

PROJECTS

India State Competitiveness Index — Porter's Diamond Analysis

2026

Python · Pandas · pdfplumber · scikit-learn · Seaborn | github.com/jayantashutosh-rgb/india-state-competitiveness-index

- Extracted 17 indicator tables from a 472-page RBI statistical handbook with pdfplumber, handling transposed and multi-page layouts; the parser raises an error on unreadable tables instead of guessing.
- Engineered 11 indicators for 33 states and union territories — name harmonisation, per-capita densities, documented reference years — and scored them with Min-Max normalisation, equal weights and an 8-of-11 coverage rule, with no imputation.
- Validated the ranking with three sensitivity checks (Spearman 0.99+ each), then added K-Means clustering, gap analysis and scenario simulations across a 15-notebook reproducible pipeline.

Beyond GDP — Human Development & Capability Analysis

2026

Python · SQL · SQLite · scikit-learn · statsmodels | github.com/jayantashutosh-rgb/beyond-gdp-capability-analysis

- Merged four global sources (UNDP, World Bank, World Happiness Report, Transparency International) into a single 130-country dataset, standardising identifiers to ISO3 and handling missing values.
- Designed a four-table SQLite database and queried it with joins, CTEs, window functions and views to surface high-GDP/low-HDI cases and the reverse.
- Ran correlation, multiple regression and a t-test; built a capability index correlating 0.94 with HDI and 0.86 with happiness, but only 0.67 with GDP.

Government Budget ETL & Validation Pipeline

2026

Python · Pandas · PyMuPDF · Camelot | github.com/jayantashutosh-rgb/india-union-budget-capability-analysis

- Built a PyMuPDF and regex pipeline extracting 102 ministry-level demands from the Union Budget 2026-27 Expenditure Profile into a standardised schema.
- Reconciled against the published Grand Total, closing the residual to Rs 0.19 crore on a Rs 53.47 lakh crore base, and mapped ministries to capability domains with contested cases documented.

Economic Survey 2025-26 — Text Analysis with SQL & Python

2026

Python · SQL · SQLite · pdfplumber · Matplotlib | github.com/jayantashutosh-rgb/economic-survey-capability-analysis

- Parsed the 740-page Economic Survey chapter-by-chapter into an indexed SQLite database (17 chapters, 676 pages, 252,587 words).
- Wrote SQL with CTEs, aggregations and a keyword-density pattern; manually classified 122 context windows across three review rounds, committing every entry for audit.

CERTIFICATION

Google Data Analytics Professional Certificate — Google / Coursera, Jul 2025. Eight-course program covering data cleaning, spreadsheets, SQL, statistical analysis and visualisation.

EDUCATION

2025 – Present	Master of Computer Applications (MCA), Mangalayatan University
2026	M.A. Economics, Swami Vivekanand Subharti University
2022	M.A. Political Science, Indira Gandhi National Open University (IGNOU)
2016	B.Com, Delhi College of Arts & Commerce, University of Delhi