

# Priyanshu Kumar

AI Automation Engineer · Data Quality · Financial Analytics

Dual-degree candidate in Economics and Computer Science at **BITS Pilani Goa**, currently building analyst-reviewed AI and data automation for **S&C Government Ratings at MSCI**. Strong fit for data, analytics, automation, and software roles that need financial domain judgment paired with hands-on engineering.

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## Recruiter Snapshot

Current focus	AI-governance-ready automation for <b>sovereign and sub-sovereign S&amp;C ratings</b> , data validation, and analyst review workflows.
Impact	<b>13 production automations</b> covering <b>163 screening factors</b> , saving roughly <b>4,800 analyst hours per year</b> .
Strengths	Python automation, LLM-assisted validation, web scraping, Power BI, SQL, Advanced Excel, React/Next.js, and financial analytics.

## Experience

**MSCI Inc. – AI Engineer, Practice School II** **CURRENT ROLE** Feb 2026 – Present  
Sustainability & Climate · S&C Government Ratings, Data Operations Mumbai, India

- ▶ **Learned how MSCI S&C ratings are constructed end-to-end** – studied the **Sovereign Screening Factors** methodology across the six sustainability themes (Climate & Environment, Human Rights, Labor & Slavery, Corruption & AML, Weapons & Security, SDGs); came to appreciate why MSCI preserves missing data as missing rather than estimate/proxy-fill, to keep ratings **auditable and defensible to clients**.
- ▶ **Internalized the role of “screens”** as a product layer – country-level data points that feed values-based screening on sovereign bond portfolios, controversy datasets, and client-facing reference workbooks; this reframed every automation around *not breaking the analyst’s trust* in the rating output.
- ▶ **Extended my understanding into Sub-Sovereign (Local Authorities) ratings** – how MSCI applies sovereign rating logic to municipal and regional government issuers; applied that by building the **Local Authorities Workbook automation** with comparison-and-update tabs that mirror the analyst review cadence.
- ▶ **Mapped the screening lifecycle to identify what was safe to automate** – routine sourcing and derivation versus judgment-heavy analyst review that had to stay human. That framing produced **13 production automations covering 163 screening factors** across treaty, sanctions, governance, and security data vendors, plus a reusable generic factor framework – saving roughly **4,800 analyst hours a year**.
- ▶ **Sharpened concrete skills through the build** – defensive web scraping across multiple data vendors, canonical country-name resolution, copy-on-write workbook handling, **MCP server design**, and per-run JSON audit reports with analyst review queues; shipped at **LOW-RISK** under MSCI’s **Data Ops AI Governance Committee (AIGC)**.

**Nirmaan Organisation – Full Stack Development Intern**

Aug 2025 – Dec 2025

EdTech and Impact Hiring Platforms

Hyderabad, India

- ▶ Delivered **four production applications** including an Impact Hiring platform and AI-integrated Resume Builder with role-based admin panels.
- ▶ Hardened platform security (CAPTCHA, SQL-injection mitigation, JWT authentication) using **TypeScript, Next.js, Node.js, MongoDB, and OpenAI API**.

## Selected Projects

**Nominal GDP Automation & Validation** — *Python, MCP Server, Claude API*

Mar 2026

- ▶ Modular **MCP server** with LLM routing and multi-agent orchestration for sovereign GDP data; automated **schema validation, anomaly flagging, and reconciliation** against prior-period values.

**Sovereign Screens Web Scraper** — *Python, BeautifulSoup, Selenium*

Feb 2026

- ▶ Web-scraping framework over **multiple data vendors** with retry logic; validation pipeline flagging missing, duplicate, and outlier values for human review.

- ▶ Interactive **Power BI** dashboards over UN SDG datasets with Python ETL pipelines for ingestion, transformation, and quality checks.

**Axiom Replica – Trading Terminal UI** — *React, Next.js, TypeScript, WebSockets*

Apr 2026

- ▶ Frontend replica of axiom.trade (Solana on-chain trading terminal) showcasing **skeleton loading, suspense boundaries, code-splitting, virtualization**, and live WebSocket order/price streams.

**Education****Birla Institute of Technology & Science (BITS) Pilani – K.K. Birla Goa Campus**

2021 – 2026

**M.Sc. (Hons.) Economics & B.E. Computer Science** – Dual Degree

Goa, India

- ▶ **Finance & Economics:** Security Analysis & Portfolio Management, Derivatives & Risk Management, Financial Risk Analysis, Business Analysis & Valuation, International Economics, Public Finance, Micro/Macroeconomics.
- ▶ **Quantitative:** Econometric Methods, Applied Econometrics, Probability & Statistics, Mathematical & Statistical Methods, Game Theory.
- ▶ **Computing:** Database Systems, Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Object-Oriented Programming.

**Skills****Finance & Quant**

Equity &amp; index analysis, portfolio management, derivatives, risk management, econometrics, time-series analysis

**Data & Analytics**

Python (Pandas, NumPy, scikit-learn), SQL, Power BI, Advanced Excel, Matplotlib, Seaborn

**AI & Automation**

Claude API, OpenAI API, MCP server development, LLM-assisted validation, anomaly detection, ETL automation, web scraping

**Engineering**

React, Next.js, TypeScript, Node.js, Django, Flask, MongoDB, MySQL, Prisma, Git, Docker, Azure

**Languages**

English (Professional Working Proficiency, Fluent) · Hindi (Native)