ARPIT AGRAWAL

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Education

Swami Keshvanand Institute of Technology Jaipur   **Aug 2019 – May 2023**
Bachelor of Technology in Electronics and Communication Engineering   *CGPA: 7.97/10*

Experience

ESVADHYAYA/ *Data Analyst | Data Engineer | Database Administrator*   **Nov 2023 - May 2025**
Educational Performance Data Pipelines
- **Designed data workflows** for over 200 student and faculty clients across UK universities, using **Excel, Python, SQL** for structured academic analytics
- **Refined unstructured datasets**—assessment logs to student submissions—for a 40% boost in analytical consistency and turnaround speed
- Delivered **custom academic dashboards and predictive models**, enabling professors to track performance gaps and optimize grading at scale
- Applied **SPSS** and Python for **multivariate regression**, **descriptive analytics**, and **correlation** studies to drive evidence-based educational insights

Fraxus3D/ *Data Analyst*   **April 2023 - Sept 2023**
Production & Quality Analytics Pipeline
- Designed a data pipeline to collect and process daily print logs across 40+ printers, enabling visibility uptime, error rates, and throughput metrics
- Built **Power BI** dashboards to monitor key production print volume, defect frequency, and machine utilization—helping reduce failure rates by **20%**
- Analyzed operational patterns using **Python** and **SQL** to identify recurring print issues and material usage across high-demand prototypes

Market Behavior & Product Performance Analytics
- Consolidated order and delivery data to analyze print success across **B2B** and government projects, identifying formats and delivery trends
- Created a **scoring system** to rank product categories by production time, cost efficiency, and reusability—guiding pricing and capacity decisions

Zucol Group/ *Data Analyst Intern*   **Oct 2022 - March 2023**
Academic Performance Analytics Engine
- Engineered an end-to-end ETL pipeline using **Python**, **SQL**, and **Excel** to ingest, clean data for 50+ students across multiple course modules
- Reduced manual data prep by **40%** and accelerated reporting cycles by integrating rule-based and batch-processing logic across structured logs
- Deployed interactive dashboards in **Power BI** and **Google Data Studio** to track attendance volatility, and submission trends across cohorts
- Performed **cohort-level segmentation** and outlier detection using **Pandas**, enabling precision for high academic interventions rates by **15%**

Projects

Global Retail & Logistics Intelligence Hub / *Data-Driven Optimization & Forecasting*   **May 2022 - Aug 2022**
- Orchestrated a cloud-ecosystem uniting **ERP, POS**, and **IoT** telemetry in a Snowflake warehouse, delivering **<2s** queries on **500M+** records.
- Deployed Python–PostGIS–ArcGIS route optimization, cutting delivery times by **22%** and saving **£1.3M** annually in fuel costs.
- Designed demand forecasting in **SPSS** + **Prophet**, boosting inventory accuracy to **96%** and cutting stock-outs by **35%** across 1,200+ sites.
- Built executive dashboards in Tableau and Power BI with satellite, KPI overlays, empowering C-suite to make pivots in hours instead of weeks.

Smart Promotion Profitability Tracke / *Advanced Analytics & Geo-Insights*   **April 2023 - July 2023**
- Architected analytics engine merging marketing, e-commerce, food delivery, and geo data in a centralized warehouse with automated **Python ETL**.
- Deployed uplift modelling, multi-factor regression, and A/B testing to quantify **ROI**, optimize budgets, cut marketing inefficiencies by **20%.**
- Built a Power BI command center with geo-heatmaps, profitability, and forecasting — lifting ROI by **15%** and improving accuracy to **92%.**
- Drove **18%** conversion lift and **12%** churn drop via SPSS **regression**, **clustering**, and factor analysis of multi-source campaigns.

Global Supply Chain & Retail Intelligence/ *Disruption Prediction & Analytics*   **May 202 - Jul 2025**
- Built data pipeline with Python, Spark, and Azure, processing **8M+** supply chain events across **1,700+** global sites for anomaly detection.
- Built predictive models in Python, TensorFlow, and SPSS with **92%** accuracy, cutting emergency restocks **40%** and protecting **₹42K** inventory
- Optimized logistics with PostGIS, Turf.js, and **Mapbox** via Python and SQL, cutting delivery times 18% and saving **₹25** lakh annually.
- Created dashboards in Power BI, **Tableau**, and Excel with drilldowns, risk heatmaps, and scenario simulations to drive agile supply chains

Skills and Expertise

Languages: SQL, Python, R, DAX   **Libraries and Tools**: Power BI, Tableau, Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, Excel, Azure, Databricks, IBM SPSS Statistics, MySQL, Git, GitHub, LaTeX   **Relevant Skills:** Data Analysis, Dashboard Development, Data Visualization, Data Structuring & Analytics, Data Wrangling, ETL Processes, Data Cleaning & Automation, Machine Learning, Statistical Analysis, Reporting & Storytelling with Data, Performance Optimization, Strategic Insight, Cross-functional Collaboration
Relevant Courses: Data Analytics, Machine Learning Foundations and Applications, Deep Learning Foundations and Applications, Probability and Statistics, Algorithms - 1, NLP, Programming and Data Structures, OOPS

Skill Certifications & Achievements

- **Google Analytics (Google)** — Web & campaign performance tracking for data-driven marketing.
- **SQL (Advanced) (HackerRank)** — Complex queries, joins, and large-scale data analysis.
- **Machine Learning with Python (freeCodeCamp) —** Experienced in building predictive models, performing feature engineering, and algorithms to solve real-world business problems. Skilled in applying supervised and unsupervised learning techniques for data-driven decision-making.
- **Data Analysis with Python (freeCodeCamp) —** Proficient in statistical analysis, **exploratory data analysis** (EDA), and transforming multi-source datasets into clean, structured formats. Experienced in uncovering trends, **correlations**, and key metrics to generate actionable business insights.
- **Data Visualization Using Python (IBM) —** Skilled in designing impactful, data-driven dashboards and visual reports using Matplotlib, Seaborn, and Plotly. Experienced in translating complex datasets into clear, interactive visuals that enhance decision-making and highlight key business trends.
- **Data Visualization with R (IBM)** — Skilled in creating statistical plots and business-focused visualizations using **ggplot2** and **R's data wrangling** tools.
- **Get Data from the Internet (Google for Developers) —** Proficient in automating data acquisition from **APIs**, websites, and cloud sources, integrating diverse datasets into analytics workflows. Experienced in building efficient pipelines for batch data collection to support advanced analysis.