AGNIVA MONDAL

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PROFILE

AI Engineer and healthcare consulting maverick with 6+ years of experience in patient analytics, forecasting, market access, and LLMs. I transform complex IQVIA datasets across adult and paediatric portfolios into a decisive strategy. Learning AI tools at scale across tech and pharma. Passionate about building trustworthy, production-ready ML systems.

- *Skills -* Data Analysis, Data Visualization, Machine Learning, Predictive Modelling, and Forecasting
- *AI / ML Stack:* Scikit-learn, XGBoost, Hugging Face, LangGraph, Vector Databases, RAG, Prompt Engineering
- *Tools -* SQL, Python, Google Cloud, Tableau, Spotfire, Amazon Redshift, Snowflake, Big Query, Adv. Excel
- *Datasets -* IQVIA(Rx, Dx, LAAD, FIA, NSP, NPA), Symphony, Komodo, ClinicalTrials.gov, and EHR Data

EDUCATION

Purdue University, Daniels School of Business   **West Lafayette, Indiana**
Master of Science in Business Analytics and Information Management - (STEM Designated)   *Aug 2025 – July 2026*
Amity University, Amity Institute of Biotechnology   **New Delhi, India**
Bachelor of Technology in Biotechnology   *July 2015 – May 2019*

PROFESSIONAL EXPERIENCE

Johnson & Johnson – Industry Project   **West Lafayette, Indiana**
Graduate Data Science Researcher   **Aug 2025 – Dec 2025**

- Built NLP pipelines using Hugging Face Transformers to extract sentiment, treatment perceptions, and unmet needs from double-blinded physician market research surveys across 4+ hematology indications.
- Built a modular analytics framework that classifies heterogeneous survey columns, generates interaction-ready datasets, and outputs structured CSVs for downstream visualization and decision workflows.

IQVIA   **Bangalore, India**
Associate Consultant – Patient Analytics & Market Access   **Feb 2022 - Jun 2025**

- Built automated RWE & HEOR analytics pipelines for maternal RSV vaccine across 10+ regions, enabling standardized tracking of coverage, adherence, access barriers, and regional variability for commercial decision-making.
- Developed pharmacy claims optimization and market access across multi-source claims data to analyze paid, reversal, and rejection rates, uncover denial drivers and reimbursement leakage, and reduce manual review effort by ~30%.
- Delivered market access analytics by modeling average out-of-pocket costs for Abrysvo across 20+ payer scenarios, informing pricing strategy and strengthening marketing competitiveness.
- Led end-to-end real-world co-admin analytics across vaccines using longitudinal claims (50M+ lives) data to quantify patient overlap, conversion funnels, and payer dynamics, reducing insight turnaround time by 40%.
- Built KPI reporting pipelines tracking 30+ performance metrics across brand performance, drug utilization, switching, adherence, and Rx/sales using SAS/SQL/VBA frameworks supporting decisions for 5+ commercial stakeholders.
- Hands-on skills in conceptualization and building dashboards and business intelligence solutions using Adv. Excel/Spotfire/Tableau/Power BI to deliver insights to commercial, market access, patient analytics, and sales teams.

Genpact   **Pune, India**
Business Analyst – Forecasting   **Aug 2021 - Feb 2022**

- Developed adv. excel dengue forecast models across 10+ geographies for Merck, improving accuracy by ~15 - 20% and accelerating vaccine distribution planning.
- Automated comparative pipeline analyses process, including product profiling and clinical trial assessments, reducing time-to-insight for strategic planning by ~30%.

AlphaMeld Corporation   **Gurgaon, India**
Research Analyst – Commercial Analytics   **Jul 2019 - Aug 2021**

- Designed patient and unit-level commercial forecasts, scenario analyses, and financial valuation models (NPV, e-NPV, IRR) across IBD, oncology, agitation, and rare diseases, enhancing portfolio decision-making efficiency.
- Engineered R-based data validation pipelines that resolved 40% of recurring data issues, driving a 45% improvement in Marketing Mix Model accuracy.
- Re-architected high-volume ETL pipelines to optimize performance, increasing data processing speed by 30% and improving delivery reliability.

LEADERSHIP ACTIVITIES, AFFILIATIONS, HONORS

- **IQVIA Impact Award** - Awarded for contributions to the L&D initiatives and Innovative Project delivery.
- Led **African student trainings in Plant tissue culture**, GMO farming, and entrepreneurship development.
- **Green Revolution Global Certification by the United Nations**, focused on global environmental sustainability.