

NURUDDIN BAHAR

DATA ANALYST

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Accomplished Data Analyst with 6.5 years of experience across hospital digital transformation and the biopharmaceutical industry, leveraging advanced data analysis and automation to drive strategic decision-making and process optimization.

PROFILE SUMMARY

- Transforms complex datasets into actionable insights that enhance product quality and operational efficiency
- Hands-on experience building and deploying Power BI dashboards across diverse business domains
- Expertise in statistical analysis, data visualization, and process automation, grounded in a strong engineering and research foundation
- Proven track record of digitizing and automating processes to reduce manual effort and optimize workflows across bioprocessing stages
- Adept at cross-functional collaboration and driving continuous-improvement initiatives within multi-disciplinary teams
- Skilled at streamlining data-capture processes, strengthening reporting mechanisms, and optimizing experimental designs to maximize productivity and data integrity
- Extensive life-sciences research experience spanning bioprocessing, cell culture, and protein purification

SKILLS & COMPETENCIES

CORE COMPETENCIES

- Data Analysis & Visualization
- Process Automation & Digitization
- Statistical Modeling
- Predictive Analytics & Machine Learning
- Bioprocess Optimization
- AI Applications

TECHNICAL SKILLS

- **Visualization:** Power BI | Excel | JMP | Minitab
- **Programming & Automation:** Python | SQL | VBA | OSI-PI
- **Databases:** MySQL | PostgreSQL | SQL Server
- **ML & Predictive Analytics:** Python
- **AI-Assisted Development:** Claude | MCP Server
- **Other Tools:** JIRA | Adobe Illustrator

PROFESSIONAL EXPERIENCE

Data Analyst

Mar 2025 – Present

Apollo Health and Lifestyle Ltd. | Hyderabad, India

- Built interactive Power BI dashboards for revenue & footfalls, appointments, referrals, diagnostics, and in-patient referral conversions across hospitals and clinics
- Delivered clinic-wise and network-wide Report Status & TAT (Turnaround Time) dashboards across 100+ clinics with daily automated refreshes, and engineered a Python pipeline to auto-email clinic-specific summaries to managers — providing real-time reporting visibility while eliminating manual report distribution
- Developed a Clinics Ranking dashboard benchmarking 100+ clinics across footfall, revenue, Average Order Value (AOV), health checks, and consultations, enabling leadership to identify and drive targeted interventions for underperforming clinics
- Designed and implemented a Python-based ETL pipeline integrating MySQL and SQL Server to automate daily data refreshes for the HealthBridge dashboard
- Applied advanced Power BI techniques including dynamic time-based reporting, forecasting, DAX functions, bookmarks, dataflows, and data gateways
- Integrated Power BI dashboards with a React-based frontend and Azure-authenticated URL filtering to enable secure, clinic-specific data views
- Accelerated Power BI dashboard development through AI-assisted workflows (Claude with MCP server integration), reducing build and iteration time by ~40%
- Performed querying, data processing, and extraction across MySQL and SQL Server, with thorough documentation of all dashboards
- Automated daily billing extraction, attendance records, and referral/conversion reporting (MTD, YTD, FTD) with email delivery via Python cron jobs, improving delivery efficiency and reducing manual effort

Data Analyst

Apr 2024 – Feb 2025

Dr. Reddy's Laboratories | Hyderabad, India

- Enhanced CHO cell-culture operations by delivering actionable insights from multivariate data analysis, improving process robustness and product quality
- Automated data workflows by extracting chromatography data via Python and integrating 10L bioreactor data through OSI-PI, reducing manual effort by 50%
- Conceptualized ELN templates to enable cross-functional teams, streamline data capture, and support a Google Cloud-based data lake for improved information sharing
- Developed risk-assessment tools using Excel VBA to automate RPN scoring, enabling a consensus-driven evaluation process and enhancing decision-making

Research Scientist – MSAT / Bioprocess

Oct 2020 – Mar 2024

Wockhardt Ltd. | Aurangabad, India

- Analyzed and visually reported KPIs and stage yields for Yeast Insulin batches, highlighting downstream process performance and optimization strategy
- Established predictive models using polynomial regression and neural networks to forecast real-time peak conversion hours and product yield in Yeast Insulin conversion reactions
- Streamlined production by visualizing mock pool analysis data, optimizing pooling strategies for CIEC (Insulin Glargine) and RP-HPLC (Yeast Insulin)
- Deployed an Excel tool to monitor Yeast Insulin downstream stages, enabling real-time comparison of stage durations against baselines and timely interventions
- Conducted JMP best-fit analysis comparing in-house vs. alternate-vendor TBEE samples, leading to a vendor switch that significantly improved conversion efficiency
- Provided critical recommendations on optimal capsule formulation using clinical pharmacokinetic data and advanced inferential statistics, including chi-squared analysis
- Developed a Python-based GUI for designing parameter-driven experimental plans, optimizing the user experience
- Reduced reporting time from hours to minutes via a VBA-based robotic batch-process recorder, enhancing productivity
- Conceptualized a Power BI impurity dashboard and pivot-table composition charts, strengthening visualization of formulation and analytical data
- Monitored 50+ pilot-scale downstream chromatography batches for Insulin and its variants (capture to RP-HPLC), ensuring compliance with operational protocols and specifications
- Led 30+ upstream processing batches from seed inoculation to final insulin body harvest, ensuring data integrity and quality across all stages

Associate Software Engineer

Jul 2013 – Jan 2014

Exeter Software Pvt. Ltd. | Bangalore, India

- Developed an online passport application portal, streamlining the application process and enhancing user experience
- Earned certification in ORACLE rule development, building a foundation in database management and software development principles

EDUCATION & CREDENTIALS

EDUCATION

M.Sc. Biomedical Engineering

University of Glasgow, UK | 2020

Graduated with Distinction. Thesis on hydrogels and human mesenchymal stem cells.

M.Tech. Nanotechnology

Indian Institute of Science, Bengaluru | 2017

Thesis: DNA-origami-based chemically synthesized magnetic nano-propellers.

B.Tech. Chemical Engineering

IIT Bombay, Mumbai | 2013

CERTIFICATIONS

- Certified Associate in Python Programming (PCAP)
- AWS Certified AI Practitioner
- Microsoft Power BI Data Analyst Associate (Sep 2025)
- Microsoft Office Expert – Word & Excel 2019
- Microsoft Office Associate – Outlook & PowerPoint 2019

ACADEMIC ACHIEVEMENTS

- AIR 718 in IIT-JEE 2009
- AIR 16 in GATE (Biotechnology) 2015
- CSIR-JRF (Life Sciences) – qualified 2015 & 2018
- 100% in Social Science, CBSE Class 10 Boards (2006)