

Nidhi Nityanand Uchil

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EDUCATION

Northeastern University, (Boston, USA)

Expected Aug 2025

Master of Science in Data Analytics Engineering, GPA: 3.75

Coursework: Database Management, Visualization & Analysis, Operations Research, Data Mining, Engineering project Management

University of Mumbai, DJSCE (Mumbai, INDIA)

Oct 2020

Bachelor of Engineering in Electronics

Coursework: CAD Design, digital signal processing, communication networks, electronic circuits

SKILLS

Technical: Python (Pandas, NumPy, Matplotlib, Seaborn), R (dplyr, tidyr, caret, tidyverse), SQL (MySQL, SQLite, MongoDB), Alteryx (Designer, Auto Insights, Intelligence Suite), Microsoft Excel

Data Management and Analytics: Exploratory Data Analysis, Predictive Modeling, Statistical Analysis, Forecasting and Trend Analysis, Time series analysis, KPI & Metric Development, Database Querying, Hypothesis Testing

Machine Learning: Feature Engineering, Model Selection & Hyperparameter Tuning, Ensemble Methods (Random Forest, XGBoost), Classification (Logistic Regression, Decision Trees), Model Evaluation & Validation, Linear Regression, Clustering (K-Means, Hierarchical), Dimensionality Reduction (PCA)

Data Visualization: Python (Matplotlib, Seaborn, Plotly), R (ggplot2, Shiny Dashboards), Tableau, Microsoft Power BI (Power Query, DAX, RDL), Microsoft Excel, Google Data Studio, Looker

WORK EXPERIENCE

ALEXION PHARMACEUTICALS (AstraZeneca), Boston MA, USA

Data Analyst and Program Coordinator

Jul 2024 - Dec 2024

- Developed and maintained Power BI dashboards, boosting reporting efficiency by 30% across 34+ global programs.
- Automated workflows with Alteryx and Power Automate, reducing manual processing and improving reporting accuracy by 40%.
- Integrated and transformed multi-source data using Power Query, enabling seamless and accurate Power BI reporting.
- Improved risk mitigation processes by developing a centralized issues log, reducing delays by 15%.
- Delivered ad-hoc analysis to support cross-functional teams and align with PMO objectives.
- Conducted root cause analysis on performance dips across programs, delivering actionable insights that reduced project risks and improved on-time delivery by 12%.

ACG PAM PHARMA TECHNOLOGIES PVT LTD, Mumbai, INDIA

Analyst, Aftermarket Service

Jun 2021 - May 2023

- Analyzed large datasets using SQL and Excel to identify trends and deliver actionable insights, resulting in a 15% increase in operational efficiency.
- Designed and maintained interactive dashboards in Excel and Power BI to deliver monthly performance reports, improving weekly deliverables by 10–15%.
- Managed a digital Service Portal application for 100+ field engineers, streamlining workflows and boosting on-site efficiency.
- Collaborated cross-functionally to address operational issues via JIRA, cutting project delays by 35%.

Graduate Engineer Trainee, Industrial Internet of Things (IIoT)

Nov 2020 - May 2021

- Built Smart Machines (IIoT Machines) using PLC Programming for remote monitoring and maintenance of the machine.
- Designed PLC-based systems that provide real-time information, updates on tablet packaging machines and gained insights for stakeholders to improve marketing strategies and KPIs by 80%.
- Participated in product R&D to communicate business requirements and ensure market readiness.
- Mentored peers on data-driven techniques and best practices, leading to a 40% increase in customer expansion.

PROJECTS

Predicting Player Online Gaming Behavior

Jan 2025 - Apr 2025

- Developed classification models (Random Forest, Logistic Regression, KNN, MLP) on 20,000+ player engagement records.
- Applied hyperparameter tuning techniques (grid search, randomized search) to optimize model performance and prevent overfitting.
- Implemented preprocessing workflows including one-hot encoding, feature engineering, and target variable reclassification.

Bar Crawl: Detecting Heavy Drinking

Mar 2024 - Apr 2024

- Investigated the reliability of permutation entropy and complexity method in differentiating heavy drinking versus sober cases.
- Built a preprocessing pipeline with data cleaning, normalization, and time series preparation.
- Evaluated classification effectiveness through detailed visualizations and performance metrics.

Fitness and Health Management for NBA players

Sep 2023 - Dec 2023

- Designed a database for NBA Players and Management. Performed in-depth analytics on players statistics.
- Utilized concepts such as aggregation, composition, and specialization to make conceptual models that are EER and UML.
- Created a database and tables using MySQL and MongoDB. Created an interactive dashboard on Tableau.