

Amrit Raj

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SUMMARY

Data Analyst with 5+ years of experience delivering data-driven insights across fintech, education, and airline analytics. Proven track record of building churn models, KPI frameworks, and executive dashboards that reduced churn by up to 60% and improved operational efficiency by 80%. Strong expertise in SQL and Python, cloud data platforms, data science and machine learning, and delivering stakeholder-driven analytics.

TECHNICAL SKILLS

- **Analytics & Programming:** Advanced SQL, Python (Pandas, NumPy, Scikit-learn), Statistical Analysis
- **Data & Cloud Platforms:** Snowflake, Databricks, Azure Data Factory, AWS S3, BigQuery, Microsoft Fabric
- **BI & Visualization:** Tableau, Power BI, Advanced Excel, KPI Design, Executive Dashboards
- **AI & Automation:** ChatGPT, LangChain, OpenAI API, AutoGen, Cursor AI, Power Automate
- **ML & Analytics Techniques:** Predictive Modeling, Churn Modeling, A/B Testing, Time Series Analysis
- **Others:** Agile, Scrum, JIRA, Stakeholder Management

PROFESSIONAL EXPERIENCE

Data Analyst

Sound Credit Union

June 2025-Present

Tacoma, WA

- Developed enterprise churn, retention, and CLV KPI frameworks, accelerating reporting cycles by 35% through Tableau dashboards.
- Engineered churn segmentation logic using SQL and Python across 200K+ member records, enabling targeted retention strategies.
- Developed and validated predictive churn models with 80%+ accuracy, contributing to a 55–60% churn reduction within two quarters.
- Quantified and communicated \$2M+ value-at-risk, aligning insights across 10+ cross-functional stakeholders to drive executive decisions.

Data Analyst (Placement Analytics)

Career Development Centre, UEM Kolkata

Jan 2022- May 2025

India

- Implemented end-to-end SQL–Excel–Python data pipelines, reducing manual data preparation by 80% and enabling reliable, scalable analytics.
- Designed and tracked placement success KPIs, driving 86% (2022) and 90% (2023) placement rates and leading a Placement Optimization initiative that improved student outcomes by 30% and employer satisfaction by 25%.
- Translated complex analytical insights into executive-ready dashboards and reports, supporting leadership decision-making and strategic planning.

Data Analyst/Data Engineer

Cognizant

Jun 2016- Oct 2017

India

- Supported Airlines' Operations & Customer Experience Analytics team, analyzing flight operations, delays, cancellations, and customer disruption data to enable operational performance reporting.
- Processed 50K+ daily records across flight schedules, aircraft utilization, airport operations, and customer itineraries using SQL-based analytics workflows.
- Identified and resolved data latency and accuracy bottlenecks caused by inefficient joins and fragmented airline data sources.
- Optimized SQL-based data pipelines through join refactoring, removal of redundant transformations, and data validation checks, improving data accuracy by ~15% and reducing delivery timelines by ~20%.

ACADEMIC PROJECTS

Prostate Cancer Risk Prediction -Healthcare Analytics

- Analyzed 5K+ patient records using Python (Pandas, Scikit-learn), SQL, and statistical tests (chi-square, logistic regression) to identify top risk factors.
- Built and evaluated classification models (logistic regression, random forest) with 80–85% accuracy using train-test split and cross-validation.

Pizza Sales Performance Dashboard -Retail Analytics

- Performed EDA on 10K+ pizza orders using SQL, Python (Pandas, Matplotlib/Seaborn) to analyze daily revenue, AOV, and top 5 SKUs.
- Built an interactive Tableau/Power BI dashboard, reducing manual reporting by ~40% and revealing 10–15% upsell opportunities through time-series and cohort analysis.

EDUCATION

- M.S. in Business Analytics - University of Washington | GPA 3.9 / 4.0 WA, USA | Jun 2025- Jun 2026
- Research Scholar- UEM Kolkata India | Oct 2017-Dec 2021
- MTech in Energy & Environmental Engineering – Vellore Institute of Technology Vellore, India | 2016
- BTech, Mechanical Engineering - Dr. D.Y. Patil College of Engineering Pune, India | 2012

CERTIFICATIONS

[Data Science Specialization \(Johns Hopkins University\)](#) | [Amazon AWS Academy Cloud Foundations](#)

[Amazon AWS Academy Machine Learning Foundations](#) | [Amazon AWS Academy Generative AI Foundations](#)