

# DEEPIKA PRIYA K

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## SUMMARY

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- Data Analyst with strong Python, SQL, Power BI, and Tableau skills and hands-on experience in data cleaning, EDA, and dashboard development.
- Currently working as a Software Engineer with hands-on experience in SQL-driven data operations, reporting automation, and data quality improvement.
- Built end-to-end analytics and machine learning projects delivering measurable business insights across HR, customer support, and operations.

## PROJECTS

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### IBM HR Analytics - Employee Attrition & Performance ([View Project](#))

**Python • SQL • Tableau • Machine Learning**

- Designed an end-to-end HR analytics workflow to identify attrition drivers and support data-driven retention strategies.
- Performed data cleaning, EDA, and feature engineering using **Pandas and NumPy**.
- Built and evaluated ML models (**Logistic Regression, Random Forest, XGBoost**) achieving strong performance (~84% accuracy) with balanced precision–recall on hold-out data.
- Identified key attrition drivers such as overtime, low satisfaction, early tenure, and compensation factors.
- Created Tableau dashboards to visualize employee trends and actionable HR insights.

### Customer Support Ticket Satisfaction Analysis (NLP & Machine Learning) ([View Project](#))

**Python • Pandas • Scikit-learn • XGBoost • SentenceTransformers • SHAP**

- Analyzed customer support tickets to identify drivers of dissatisfaction and predict low ratings.
- Applied NLP using **MPNet (SentenceTransformers)** for ticket text embeddings.
- Built and evaluated ML models; **XGBoost achieved best precision–recall balance**.
- Used SHAP to explain predictions and derive service efficiency and ticket prioritization insights.

### Uber Trip Demand Forecasting using Machine Learning & AWS ([View Project](#))

**Python • SQL • Tableau • Machine Learning • AWS**

- Built an end-to-end daily trip demand forecasting system using historical Uber trip data.
- Performed feature engineering with lag features and rolling statistics to capture time-based demand patterns.
- Trained regression models achieving low MAE and high prediction accuracy.
- Stored forecasts in **AWS DynamoDB** for fast retrieval and dashboard integration and built a **Tableau operational dashboard** to support fleet allocation and weekday demand planning.

## TECHNICAL SKILLS

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**Programming & Databases:** SQL (Oracle/MySQL), PL/SQL, Python, NoSQL (AWS DynamoDB)

**Data Analysis:** Data Cleaning, EDA, Data Validation, Reporting, Statistical Analysis, Forecasting

**ML & NLP:** Scikit-learn, XGBoost, SentenceTransformers, SHAP

**Visualization & Tools:** Power BI, Tableau, Excel, Power Query, Git, Jira

**Software Engineering Exposure:** SQL/PLSQL data operations, reporting automation, workflows, data quality checks (MetricStream)

## EXPERIENCE

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### Software Engineer

**Probuddy Software Solutions | Oct 2024 – Present | Bangalore, India**

*Role centered around SQL-driven data operations, reporting, workflow automation, and data quality management.*

- Performed large-scale **SQL/PLSQL data extraction, validation, and correction**, improving accuracy of reporting across MetricStream modules.
- Identified data-quality gaps and implemented fixes that reduced recurring reporting errors.
- Designed and customized **reports, dashboards, and automated email templates**, enabling teams to access real-time metrics.
- Built and optimized **workflow logic and business rules**, reducing manual work and improving process efficiency.
- Supported **data migration**, including cleansing, mapping, and validation across environments.

### Software Engineer - Intern

**Probuddy Software Solutions | Apr 2024 - Sep 2024 | Bangalore, India**

- Assisted in SQL/PLSQL tasks for data extraction, correction, and report preparation.
- Helped design and validate **forms, workflows, and dashboards** used to track internal KPIs.
- Contributed to data migration processes, ensuring clean and consistent datasets.
- Resolved data-quality issues through analysis and debugging.

## CERTIFICATIONS

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- **3-Month Data Analyst Internship – UMAD (Unified Mentor Pvt. Ltd.)** (Sep 2025 – Dec 2025)  
Tools: Python, SQL, Excel, Power BI, Tableau  
Project evaluated; Internship Certificate issued (Letter of Recommendation available) – ([View Certificate](#))
- **30-Day Data Analyst Internship – NoviTech R&D**  
Python, SQL, Excel, Power BI, Tableau, ML Basics – ([View Certificate](#))

## EDUCATION

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### Bachelor of Information Technology

PSNA College of Engineering and Technology (PSNACET)

2019 – 2023 | Dindigul, Tamil Nadu