PRIYANKA DHARMA KADAM

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Work Authorization: Residence permit (Aufenthaltserlaubnis) – unrestricted work authorization, no sponsorship required



PROFESSIONAL SUMMARY

Data Scientist with a Master's in Artificial Intelligence (grade 1.6), two ML models deployed as live web apps, and 2.5+ years building Python/SQL pipelines and Power BI dashboards. Residence permit with unrestricted work rights, available immediately; English C1, German B1 (in progress).

EDUCATION

Nov 2023 – Oct 2025 **Master of Science in Artificial Intelligence**
Dublin Business School, Ireland Grade: 1.6 (German scale)

Main Focus: Machine Learning, NLP, Predictive Analytics, Bayesian Analysis, Statistics, Python

Master Thesis: Toxic Comment Detection using NLP – multi-label text classification on 162,000+ Wikipedia comments

Aug 2012 – Jun 2016 **Bachelor of Engineering in Computer Engineering**
University of Mumbai, India Grade: 1.6 (German scale)

Focus: Data Structures, Database Management, Business Analytics & Intelligence, Data Mining

Bachelor Thesis: Android Travel Mate Application

WORK EXPERIENCE

Oct 2025 – Present **Data Science Portfolio Projects & German Language Training**
Wiesbaden, Germany

- Predictive Maintenance – Machine Failure Prediction: Built and deployed a Random Forest model that predicts machine failures from sensor data (ROC-AUC 0.985), catching 85% of failures despite only 3.4% failure cases.
- Sales Analytics – SQL Server & Tableau: Analysed sales data in T-SQL using RFM segmentation, cohort retention and market basket analysis, showing that "At Risk" customers held 32% of revenue, and presented the results in an interactive Tableau dashboard.
- Demand Forecasting & Inventory Planning (in progress): Building a 6-week sales forecast for 1,115 Rossmann stores with LightGBM and PyTorch, and turning it into safety stock and reorder levels for inventory planning.
- German: Completed A1; currently attending B1 intensive integration course.

Apr 2023 – Aug 2023 **Software Developer (Data-Focused)**
Clearship Group, Mumbai, India

- Designed and built scalable ETL pipelines to ingest, transform, and model large-scale logistics datasets for downstream analytics and reporting.
- Developed reusable SQL data models supporting product-level reporting and optimised query performance through structured validation.
- Built automated Power BI dashboards tracking shipment KPIs, enabling real-time operational visibility for business stakeholders.

Jan 2021 – Mar 2023 **Data Analyst (MIS & Automation)**
Indian Navy, Mumbai (India)

- Designed end-to-end data pipelines using Python (Pandas) and SQL, automating reporting workflows and cutting manual effort by ~60%.
- Applied statistical analysis and data modelling to surface operational trends and support evidence-based decision-making across departments.
- Built and maintained 15 Power BI dashboards for cross-functional teams and leadership, translating complex data into clear, actionable insights.
- Established data quality frameworks through systematic validation and preprocessing, ensuring consistency across all reporting outputs.

May 2017 – Nov 2020 **Logistics Data Coordinator**
All Nippon Airways, Mumbai

- Maintained cargo shipment data across multiple tracking systems, validating hundreds of records daily to keep the data accurate and consistent.
- Ran data validation and record management for logistics operations, finding and correcting discrepancies before they affected shipments.
- Prepared operational reports and tracked cargo movements using Excel and the iCargo database system.

TECHNICAL SKILLS

BI & Reporting:	Power BI (DAX, data modelling, dashboards), Excel
Data & Programming:	SQL, Python (Pandas, NumPy), ETL, data cleaning & transformation, data quality validation
Analytics & ML:	Statistical analysis, predictive modelling, scikit-learn, XGBoost, TensorFlow, NLP
Databases:	SQL Server, PostgreSQL, Sybase
Tools:	Git, Jupyter, Matplotlib, Seaborn, Streamlit, Azure (learning), Docker,Tableau

MACHINE LEARNING PROJECT

Toxic Comment Detection – Multi-Label NLP Classifier (Master's Thesis)

- Detected 6 categories of harmful language in 162,000+ Wikipedia comments using TF-IDF with bigrams and Classifier Chains (Linear SVM)
- Compared 5 approaches (Naïve Bayes, class weighting, SMOTE, Classifier Chains, grid search); best results: 87.3% exact-match accuracy, macro F1 0.56, F1 0.81 on obscene language
- Deployed as a Streamlit web app: toxic-comment-detection-01.streamlit.app

CERTIFICATES & LANGUAGES

Certifications:	Microsoft Power BI | Azure Data & AI Fundamentals (In Progress)
Languages:	English (C1), German B1 pursuing



Priyanka Kadam
Wiesbaden, Germany