

SWAPNIL IWARKAR

Data Scientist | Analytics | Machine Learning

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PROFESSIONAL SUMMARY

Data Scientist with **4 years of experience** in building predictive and classification models that deliver measurable business impact. Strong expertise in **Python, SQL, Machine Learning, and Analytics**, with hands-on experience in end-to-end model development—from data preprocessing and feature engineering to model evaluation and stakeholder communication. Proven ability to translate business problems into data-driven solutions.

CORE SKILLS

Programming & Data: Python, SQL, Pandas, NumPy

Machine Learning: Regression, Classification, Tree-based Models, XGBoost, Feature Engineering, Model Optimization

Analytics & BI: EDA, Statistical Analysis, Power BI, Business Insights

MLOps (Basic): MLflow, AWS (exposure), Model Monitoring Concepts

AI/NLP (Exposure): NLP basics, Hugging Face, OpenAI APIs

PROFESSIONAL EXPERIENCE

Data Scientist – BSW Soft | Jan 2022 – Present

- Built and deployed predictive and classification models to solve real-world business problems, improving decision-making and operational efficiency.
- Performed extensive **data cleaning, preprocessing, and feature engineering** to ensure high-quality model inputs.
- Used **Python and SQL** for data manipulation, exploratory analysis, and model development.
- Collaborated with business and technical stakeholders to convert requirements into scalable data solutions.
- Presented analytical findings and model insights to non-technical teams, enabling data-driven decisions.

KEY PROJECTS

Predicting Time to Failure for Industrial Machines (Feb 2024 – Present)

- Developed a predictive maintenance model to forecast machine failures and enable **proactive maintenance scheduling**.
- Improved model performance by **19%**, reducing unplanned downtime and supporting cost savings.
- Applied feature engineering and advanced ML techniques to enhance prediction reliability.

Malicious Web Page Detection System (Jun 2023 – Jan 2024)

- Built a machine learning classification model to detect malicious web pages and enhance user safety.
- Achieved **98.67% detection accuracy** through robust data preprocessing and model tuning.
- Improved reliability of online threat detection and reduced false positives.

Customer Buying Behavior Analysis (Mar 2022 – May 2023)

- Designed a predictive model to identify customer purchasing patterns with **89.6% accuracy**.
- Conducted EDA, data cleaning, and visualization to uncover actionable business insights.
- Enabled optimization of marketing strategies and improved profitability.

EDUCATION

Bachelor of Engineering (Information Technology)

Savitribai Phule Pune University | 2015

TOOLS & TECHNOLOGIES

Python, SQL, Power BI, AWS (Basic), MLflow, TensorFlow, Keras, PyTorch, MongoDB, PyCharm