

SHIVANI BHALSAKLE

Skills

- Programming Languages:** Python (Pandas, NumPy, SciPy, Matplotlib), JavaScript, TypeScript, SQL, HTML5, CSS3
- Databases:** Oracle Database, SQL Server, MySQL
- Frameworks:** React, Next.js, Tailwind CSS, Bootstrap
- Business Intelligence:** Power BI (DAX, Power Query), Tableau, Microsoft Excel (Pivot Tables, XLOOKUP, Power Query, Conditional Formatting)
- Development Tools:** Git, GitHub, VS Code
- Collaboration Tools:** Jira, Notion, Figma, Miro

Projects

HEALTHCARE OPERATIONS DASHBOARD  – Personal Project – New York, NY July 2026

An interactive analytics platform for monitoring hospital operations and improving patient care decisions

- Designed a relational data model from MIMIC-IV dataset integrating **9M+** records with **SQL**, **Power Query**, and **DAX**
- Developed an interactive **Power BI** dashboard with drill-through, time intelligence, and KPI visualizations

AIRLINE FLIGHT FREQUENCY OPTIMIZATION  – Personal Project – New York, NY March 2026

A model that helps airlines determine the most profitable flight schedule through mathematical optimization

- Formulated an integer linear programming model in **Python** and **Gurobi**, optimizing aircraft allocation for 30 routes
- Performed sensitivity analysis to identify schedules that increased projected network profit by **\$43M (7.47%)**
- Built visualizations using **Matplotlib** to communicate optimization results and generated recommendations

MULTIMODAL DEPRESSION DETECTION  – Thesis Project – Pune, India May 2024

A machine learning solution for early depression detection using multiple sources of patient data

- Built a multimodal ML pipeline integrating image, text, and physiological data for identifying depression risks
- Preprocessed data from human subjects using TF-IDF vectorization, grayscale normalization, and feature engineering
- Trained and evaluated CNN, Random Forest, and Naive Bayes models across Precision, Recall, F1-score, and ROC-AUC, achieving **82% classification accuracy**

Work Experience

TECHNICAL CONSULTANT – Graduate Capstone (Client: Booz Allen Hamilton) – New York, NY Sep 2025 - Jan 2026

- Analyzed enterprise solutions, market trends, and mapped **12+** use cases to design technology adoption strategies
- Built an online decision-support platform  and a change management roadmap  through weekly Agile sprints

PRODUCT DEVELOPMENT INTERN  – Alhansat Solutions Pvt. Ltd. – Mumbai, India Dec 2022 - Feb 2023

- Contributed to the development and launch of a web-based developer toolkit featuring **30+** utility tools
- Developed assigned tools with **JavaScript**, **Bootstrap**, and **Firestore** for the platform, adopted by **2,000+** early users
- Collaborated with the product owner to review implementations, validate functionality, and refine features before deployment

BUSINESS ANALYST  – SAKSHI – New Delhi, India Oct 2021 - Sep 2022

- Built an automated certificate issuance system that processed **Excel** records, eliminating a backlog of **10,000** volunteer requests
- Implemented a **CRM** solution to digitize volunteer onboarding, employee records, and invoicing, reducing administrative effort
- Analyzed **Hotjar** heatmaps and session recordings across **3** websites to identify usability issues and improve website navigation

Education

MASTER OF SCIENCE IN MANAGEMENT OF TECHNOLOGY – **New York University** – New York, NY Sep 2024 - May 2026

Relevant Coursework: Business Intelligence, Operations Management, Economics & Strategy, Financial Analysis

BACHELOR OF SCIENCE IN COMPUTER SCIENCE – **University of Pune** – Pune, India Aug 2020 - May 2024

Relevant Coursework: Artificial Intelligence, Database Management, Big Data, Cloud Computing, Data Visualization

CERTIFICATIONS – CAPM (PMI) | ECBA™ (IIBA)  | Google PM Certificate  | BCG Digital Transformation 