

# JAYESH PRAMOD PATIL

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## WORK EXPERIENCE

### Gamaka Intellectual machine [↗](#)

Dec 2023 – June 2024

*Data Analyst Intern*

*Pune, Maharashtra*

- Analyzed structured and unstructured datasets using **Python**, **SQL**, and **Excel** to generate data-driven insights
- Designed and developed interactive dashboards using **Power BI** and **Tableau** to support reporting and decision-making
- Performed data cleaning, transformation, and visualization in **Jupyter Notebook** to improve data quality and analysis accuracy

## SKILLS

**Programming:** HTML, CSS, Python

**Data Analysis:** Pandas, NumPy, Excel, Jupyter Notebook

**Data Visualization:** Matplotlib, Seaborn, Power BI, Tableau

**Machine Learning:** Scikit-learn, Data Preprocessing, Feature Engineering, Model Building & Evaluation

**Deep Learning:** TensorFlow, Keras, ANN, CNN, Model Training & Tuning

**Domains:** Computer Vision (CV) – image classification, object detection; Natural Language Processing (NLP) – text preprocessing, sentiment analysis

**Databases & Tools:** MySQL, VS Code, GitHub

**Soft Skills:** Problem-Solving, Communication, Teamwork, Time Management

## PROJECTS

### Student Performance Prediction App [↗](#) | Python, CatBoost, Flask, Render, Jupyter Notebook

2025

- Developed a **data-driven solution** to help educators detect **at-risk students** using **academic and behavioral inputs**.
- Trained a **CatBoost** model with **87% accuracy** and **80% precision** for reliable predictions.
- Built and deployed a **Flask-based web app** on **Render** for educator use.
- Enabled timely **academic support decisions** through **automated insights**.

### Anime Recommendation System [↗](#) | Python, Pandas, Scikit-learn, Flask, Jupyter Notebook

2025

- Built a **recommendation system** to reduce content overload and personalize anime discovery for users.
- Combined **TF-IDF** with **collaborative filtering**, achieving **90% Top-N precision**.
- Extracted synopsis features using **TF-IDF** to align recommendations with user interests.
- Enhanced engagement by surfacing relevant titles based on **viewing patterns**.

### Hotel Reservation Cancellation Predictor [↗](#) | Python, LightGBM, Flask

2025

- Built a **machine learning model** to predict whether a hotel reservation is likely to be canceled.
- Helped hotels reduce **revenue loss** and optimize **inventory management** through **early cancellation insights**.
- Trained a **LightGBM** model on historical booking data for **high-speed, accurate predictions**.
- Deployed the prediction system via a **Flask-based web application**.

## CERTIFICATIONS

Diploma in Full Stack Data Science & AI – Gamaka AI Solution

Introduction to Data Science – Infosys Springboard

Introduction to Data Analytics – Simplilearn SkillUp

## EDUCATION

Sinhgad Academy of Engineering, Pune

2021 – 2024

*Bachelor of Engineering in Computer Science*

*Pune, Maharashtra*