JAYESH PRAMOD PATIL

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WORK EXPERIENCE

AI/ML Intern
June 2025 – Dec 2025

Stealth-Mode AI Startup (Confidential)　　　　*Remote / India*

- Handled assigned **AI/ML tasks** independently, completing work similar to a real project workflow and learning new concepts when required.
- Worked on **RAG**-related tasks, testing different **chunking methods**, **embeddings**, and **retrieval** steps to improve model performance.
- Contributed to **frontend development** by building small UI components in **React** and sharing ideas on improving UI flow, layouts, and feature behavior.
- Supported **backend** work such as writing **LLM prompts** and testing **APIs**, while using online resources and AI tools like **ChatGPT** and **Gemini** whenever stuck.

Data Analyst Intern
Dec 2023 – Jun 2024

Gamaka Intellectual Machine　　　　*Pune, Maharashtra*

- Analyzed structured and unstructured data using **Python**, **SQL**, and **Excel** to generate insights.
- Developed dashboards using **Power BI** and **Tableau** to support decision-making.
- Performed data cleaning, transformation, and visualization in **Jupyter Notebook**.
- Collaborated with teams to improve reporting accuracy and analytics processes.

TECHNICAL SKILLS

Programming: Python (Primary), Basic SQL

Python Libraries: Pandas, NumPy, Scikit-learn, Basic NLP, RAG Concepts (chunking, embeddings, retrieval testing)

Data Tools (Basic Knowledge): Excel, Power BI, Tableau, MySQL

Other Tools: Github, Jupyter Notebook, Flask (Beginner), API Usage & Testing

Soft Skills: Problem-Solving, Teamwork, Communication, Continuous Learning

PROJECTS

Document Chatbot (OCR + Text Extraction Module)
2025

- Worked on a confidential legal-document chatbot where I was responsible for building the **OCR and text extraction** part of the system.
- Researched and tested multiple OCR libraries (**Tesseract, PyMuPDF, pdfplumber**) to reliably extract clean text from scanned PDFs and image-based documents.
- Prepared extracted text for downstream processing so the team's chatbot could generate responses using LLMs based on user queries.
- Experimented with **chunking, embeddings, and retrieval basics** to understand how document structure affects LLM output quality.
- Collaborated with team members to troubleshoot issues, improve extraction accuracy, and ensure the module aligned with project requirements.

Hotel Reservation Cancellation Predictor
2025

- Developed an ML model to predict hotel booking cancellations to support better decision-making and reduce potential revenue loss.
- Cleaned and processed the dataset, performed feature engineering, and trained classification models using **Scikit-learn**.
- Evaluated model performance with accuracy and classification metrics to understand prediction reliability.
- Created a simple Flask interface where users can input booking details and get real-time cancellation predictions.

EDUCATION

Sinhgad Academy of Engineering
Pune, Maharashtra

Bachelor of Engineering in Computer Science (CGPA: 7.89/10)　　　　*2020 – 2024*