

KRISH BAKSHI

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WORK EXPERIENCE

DATA SCIENTIST *Nasiwak Services India Private Limited*

07/2025 – Present

- **Automated floor-plan analysis** by deploying CV models in Selenium bots, reducing manual effort by **80%**, achieving **87.89% mAPE**, and scaling to **10,000+ orders/month**.
- **Built blueprint CV pipeline** using **YOLOv8 + SAHI** for **85+ small electrical symbols**, managing a **5-member bilingual team** through **200+ hrs of labeling/augmentation**, **achived 83.71% mAPE**.
- **Developed and deployed MVP** with React, Next.js, FastAPI, and Docker; launched on **AWS EC2** for pre-sales users to test real-time blueprint editing and prediction.
- **Created AI karaoke pipeline** (yt-dlp, UVR, Whisper, FFmpeg) generating videos in **<5s**, and engineered a **C++ backend** for real-time autotune with **±1ms latency** and **80% noise reduction**.

DATA SCIENTIST INTERN: *Nasiwak Services India Private Limited*

04/2025 – 07/2025

- [AutoMailAI](#) my **AI Agent** helped me secure this internship opportunity through **LinkedIn outreach**.
- Developed **object detection pipelines** for floor plans data extraction **saving 60% manual effort**, using **YOLOV5** and **OpenCV** achieving **mAPE-0.5 82.06%** in production.
- Backed by a Japanese organization, contributed to delivering technical documentation to technical and non-technical stakeholders in **English** and **Japanese**.
- Integrated custom AI/ML pipelines into **Selenium**-based automation solutions for automated Invoice generation, making the process **faster** and **reliable**.

DATA SCIENCE INTERN: *Metafied (Formerly PROFCESS)*

07/2024 – 01/2025

- Incubated by **Harvard Innovation Labs** and mentored by ex-IIT and ex-Harvard founder & senior staff.
- Engineered and deployed **scalable data pipelines** for time-series forecasting on **Azure Databricks**, leveraging **PySpark & ETL workflows** to streamline ingestion into cloud-based data lakes.
- Built and optimized an **XGBoost** model achieving **92.81% accuracy on regular sales** and **86.79% on promotional sales**, by engineering advanced features around **inventory, logistics, past sales and regional weather forecasts**.
- Experimented with **auto-regression models ARIMA**, and **SARIMA**, enhancing the accuracy of predictive insights for future sales.
- Developed data queries to surface insights and trends from large datasets from **BigQuery**, worked on various projects involving Time series, Computer vision, and LLM-based applications.

RPA INTERN: *PROAZURE SOLUTIONS PVT LTD*

12/2023 – 01/2024

- Led a team to design and implement Robotic Process Automation (RPA) solutions, driving automation initiatives for repetitive tasks.
- Automated workflows, including web scraping, online data collection, and Excel automation, leading to a **30% improvement** in task efficiency.

WEB DEVELOPMENT INTERN: *RB TECH SERVICES*

07/2020 – 09/2020

- Led a team of developers in building a dynamic website, overseeing both frontend and backend development processes.
- Managed database design and real-time connectivity using phpMyAdmin and Wamp Server, ensuring seamless data flow between the server and client-side application.

RESEARCH & PUBLICATIONS

Krish Bakshi, Sunil Bade, Mayur Bhand, Siddhesh Dhindale, Dr.H.B.Jadhav: Crop Classification using Convolutional Neural Network | IJSREM Accepted in February 2025 DOI:10.55041/IJSREM41238

PROJECTS

AutoMailAI: Python, Gemini 2.0 Flash, Gradio, Gmail API, AI Automation.

- Built an AI-based tool for personalized cold email generation using prompt engineering with dynamic templates, enabling tailored outreach for Jobs & Internships from user inputs and resumes.
- Designed a Gradio interface with single & batch processing (Excel), automated DOCX & ZIP generation, and integrated Gmail API for auto-drafting emails at scale.

ImaginAIry: Python, Stable Diffusion XL, Gemini 2.0 Flash, Gradio, Text-to-Image.

- Built a text-to-image generation pipeline using Stable Diffusion XL with prompt augmentation via Gemini 2.0 Flash.
- Fine-tuned Gemini API on a custom prompt dataset for improved image description generation.

PulseMate: Python, LLM, RAG, GPT 3.5, Decision Tree, Medical Sciences.

- Developed an AI-driven web application using BRFSS data and Decision Tree models to assess cardiovascular risk based on user inputs (health, demographics, lifestyle).
- RAG pipeline with MedQuAD and PubMedQA to generate personalized, evidence-based medical advice.

Time Series Forecasting For Future Sales: Python, XGBoost, PySpark, Gradio

- Developed a sales forecasting model using XGBoost, accelerated with CUDA for efficient training, achieving a training time of 7 seconds. Data was transformed using PySpark for enhanced scalability and performance.
- Initially, the model had a 60% Mean Absolute Percentage Error (MAPE). After feature extraction and training, the model achieved 10% MAPE and 90% accuracy.

AI Integrated Analytics Dashboard: Python, PySpark, BigQuery, Gemini, Streamlit, Plotly.

- Designed and deployed a live analytics dashboard using Streamlit, integrated with Gemini to summarize key performance indicators (KPIs).
- Utilized PySpark to surface trends and retrieved data from a BigQuery data lake for efficient analysis.

SKILLS

- **Programming Languages:** Python, SQL, C/C++, Javascript, Typescript, HTML, CSS.
- **Data & Visualization:** PySpark, Pandas, Matplotlib, Seaborn, Plotly.
- **ML & DL:** PyTorch, TensorFlow, Scikit-learn, OpenCV, HuggingFace, MLflow, langchain, LammaIndex.
- **Web Frameworks:** React.js, Next.js, Express, Node.js, Vue.js, Bootstrap, Tailwind.
- **Databases:** PostgreSQL, MySQL, Pinecone, FAISS, Qdrant, ChromaDb, LanceDB
- **API/Deployment:** Flask, FastAPI, Django, Docker.
- **Cloud Platforms:** Azure Databricks, AWS EC2, GCP, BigQuery.
- **Version Control:** Git, GitHub.
- **Languages:** English (Full professional), Japanese (JLPT N3), Hindi, Punjabi, Marathi (Bilingual).

EDUCATION

SAVITRIBAI PHULE PUNE UNIVERSITY || Pune

Bachelors of Computer Engineering

Relevant Coursework: Data Structures and Algorithm, Probability and Statistics, Machine Learning.