YASH BAGAL

Python Developer | Data Analyst | Data Scientist | Software Engineer

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PROFESSIONAL SUMMARY

Computer Engineering graduate specializing in Python, machine learning, and full-stack development. Independently designed and built a deep learning image-classification model (CNN, 50,000-image dataset, ~90% accuracy) and a role-based CRM system on Salesforce serving 5 distinct user roles. Delivered 7+ client websites during a 3-month development internship and shipped 2 paid production sites end-to-end on AWS. Strong foundation in SQL, data analysis, and REST API design; actively expanding into GenAI and data engineering (Apache PySpark, Docker).

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Apex, SQL, HTML5, CSS3

Frameworks: Flask, Salesforce Flow, Apex REST API, WordPress

Databases: MySQL, MongoDB (query design, schema modeling)

AI / Machine Learning: TensorFlow, Keras, scikit-learn, OpenCV, CNN, Transfer Learning (VGG16), Image Classification, Computer Vision

Data Analytics: Pandas, NumPy, Exploratory Data Analysis (EDA), Window Functions, GroupBy Aggregations

Tools & Environments: Jupyter Notebook, Anaconda

Cloud & DevOps: AWS (EC2, S3), Hostinger

Version Control: Git, GitHub

Currently Learning: Apache PySpark, Docker, Prompt Engineering & LLM Fundamentals (GenAI)

PROJECTS

Deepfake Image Detection — Deep Learning / Computer Vision | Solo Project

- Engineered a deepfake image classifier by fine-tuning a pre-trained VGG16 CNN (TensorFlow, Keras) on a 50,000-image dataset using a 75/25 train-test split, achieving ~90% classification accuracy.
- Used scikit-learn for train-test splitting and classification metrics and OpenCV for frame extraction/preprocessing; built and tested the full pipeline in Jupyter Notebook (Anaconda).
- Independently owned the project end-to-end — data preparation, model training, evaluation, and tuning — with no team support.

School Management CRM — Salesforce | Solo Project

- Architected a role-based CRM on Salesforce supporting 5 distinct staff roles (librarian, teacher, accountant, principal), using custom objects and OWD sharing rules to restrict each role to its own records while giving the principal full oversight access.
- Automated fee tracking, marks entry, and library record workflows using Salesforce Flow, replacing manual, role-specific data entry with rule-based automation.
- Developed a custom Apex REST API to sync data across multiple Salesforce orgs in real time, enabling multi-org integration without manual data transfer.

Production Client Websites (AWS) — vpsyb2bhub.com, ematrixs.com | Paid Freelance Delivery

- Built and deployed 2 production websites end-to-end on AWS (EC2 for hosting, S3 for static assets) as paid client engagements, handling infrastructure setup through go-live.
- Handed over full production access to clients on project completion as part of contracted delivery terms.

EXPERIENCE

Web Development Intern | Codesoft *3 Months*

- Built and shipped 7 client websites using HTML, CSS, JavaScript, and WordPress, deployed on Hostinger, collaborating with a team of developers on delivery timelines.
- Implemented MySQL and MongoDB schemas and queries to support dynamic content and data storage across client projects.

EDUCATION

Bachelor of Engineering, Computer Engineering

Savitribai Phule Pune University, Pune, India | 2021 – 2025

CERTIFICATIONS

- Data Science Certification
- Python Programming Certification
- Full Stack Web Development Certification | Software Development Life Cycle (SDLC) — Agile & Waterfall Methodologies