Vishal Yadav

Jr. Software Engineer

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Summary

Software Engineer with strong Python & backend experience, transitioning into Data Science with hands-on Deep Learning, Computer Vision, NLP, and foundational Generative AI skills.

Professional Experience

Junior Software Engineer, *Pragmatic Techsoft Pvt Ltd* 05/2023 – 07/2025
Pune

- Served as Product Owner for the Odoo–QuickBooks Desktop (QBD) Connector, leading a team and improving delivery efficiency by ~20% with structured planning.
- Built custom Flask APIs & SQL extraction scripts to fetch data from QBD, ensuring smooth data transfer for global clients.
- Processed extracted data using Python ORM to create and update Odoo records, improving data accuracy and reducing sync failures.
- Optimized workflows for customers/vendors/invoices/sales orders using Python, SQL, XML & PostgreSQL, reducing processing time by 15–20%.
- Resolved critical defects in Odoo modules, reducing client-reported issues by 30%.
- Handled end-to-end client communication, requirement gathering, data migration & deployment.
- Strengthened analytical and data-processing skills relevant for ML & Data Science.

Projects

Al Image Recognition Portal, *(Deep Learning - VGG19, Flask, TensorFlow)*

- Built an end-to-end image recognition portal using Flask & a fine-tuned VGG19 model.
- Implemented preprocessing (224×224 resize, normalization, batching) achieving ~90% accuracy.
- Optimized inference using TensorFlow/Keras, reducing latency by ~20%.
- Added secure file handling with Flask + werkzeug.
- Designed modular backend functions enabling easy model swaps.
- Tech: Python, TensorFlow, Keras, NumPy, Flask, HTML.

Image Mind, *(Computer Vision + NLP - ResNet50, LSTM, Flask)*

- Built a VQA system that returns the top 5 answers with confidence scores.
- Implemented dual-input architecture: ResNet50 for image features + LSTM for question encoding.
- Improved accuracy by ~30% compared to baseline models.
- Added full preprocessing: ImageNet normalization, tokenization, padded sequences.
- Integrated trained VQA model with Flask for real-time predictions.
- Tech: TensorFlow/Keras, NumPy, ResNet50, LSTM, Tokenizers, Pickle, Flask, HTML.

Education

MCA, *D. Y. Patil Institute of Master of Computer Applications and Management - 79%* 01/2021 – 11/2022
Pune

Skills

Languages : Python, SQL, XML

ML Algorithms: Linear/Logistic Regression, Decision Trees, K-Means

Databases: PostgreSQL

Odoo ERP: Module Development, XML Views, API Integration, Data Migration

Cloud: AWS/Azure (basic), Model Deployment Concepts

Python Ecosystem: OOP, TensorFlow, Keras, PyTorch (basic), NumPy, Pandas, Matplotlib, Scikit-learn, Flask

ML Workflow: Feature Engineering, Data Preprocessing, Model Training & Evaluation

Tools: Git, GitHub, Version Control, Jupyter Notebook, Ubuntu

Deep Learning & GenAI: CNNs, LSTMs, Transfer Learning, Transformers (basic), LLM Concepts, Generative AI (foundational), Hugging Face (beginner), VQA Systems

Methodologies: Agile/Scrum

Achievement

- Earned client-driven recognition and an appreciation email from management for consistently delivering high-quality work on a project where the client specifically requested my involvement.