

NITHIN A

Software Engineer, Software Developer, Python Back-End Developer, ML Engineer
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LinkedIn | GitHub | HackerRank

SUMMARY

Software Engineer with 2 years of experience in back-end development and ML model integration, specializing in NLP solutions. Proficient in Python, Django, FastAPI, and frameworks like spaCy, Hugging Face, LangChain, and PyTorch. Skilled in building scalable REST APIs, entity recognition, LLM integration, and asynchronous task management with Celery. Experienced in SQL/MySQL, MongoDB, Docker, and deploying ML applications in production. Passionate about AI-driven systems, with additional exposure to computer vision and mentoring on AI integration.

EXPERIENCE

Software Engineer

UVJ TECHNOLOGIES Pvt Ltd

Jun 2023 – Present

Kochi, India

- Developed a BERT-based resume categorization model and enhanced entity extraction using spaCy NER to improve accuracy.
- Fine-tuned and integrated machine learning models for experience extraction using spaCy and RoBERTa. Annotated training data for accurate results.
- Configured and integrated machine learning models with FastAPI for extracting names and predicting gender from PDF metadata, using SVM and Hugging Face.
- Integrated large language models (LLMs) for entity recognition tasks, mentoring interns, and assessing AI model integration possibilities.
- Hands-on experience with large language models (LLMs) including GPT, LLaMA, Mistral, and Claude for diverse AI applications.
- Implemented Elasticsearch and Kibana for efficient data indexing, real-time search, and intuitive data visualization.
- Developed and maintained robust backend APIs (GET, POST, PATCH, DELETE) using Django for seamless database operations and deployment.
- Worked with Celery for asynchronous task processing, improving backend performance, and managing background task execution.
- Worked with MySQL and MongoDB for database management.
- Proficient in Docker for containerized applications and deployment in staging and production environments.

EDUCATION

Masters in Computer Science

Central University of Kerala

Aug 2020 – Nov 2022

Kasaragod, India

Bachelors in Computer Science

Kannur University

Jul 2017 – Jun 2020

Kannur, India

PROJECTS

Multi-Class Apple Detection Using YOLOv5

Feb 2022 – Jul 2022

- Developed an object detection model for robotic harvesting to detect apple fruits using a two-stage object detector, YOLOv5.
- Enhanced the model's accuracy with custom feature engineering and optimized hyperparameters.

Date Fruit Classification for Robotic Harvesting

Jul 2021 – Dec 2021

- Created a machine vision model for classifying date fruits based on type, maturity, and harvesting readiness in orchard environments.
- Adapted AlexNet for feature extraction and classification to automate harvesting decisions.

Personal Management System

Dec 2020 – Apr 2021

- Developed a responsive web application that allows users to track personal information, events, income, and expenses.
- Implemented full CRUD functionality using Django and integrated MySQL for database management.

SKILLS

Programming Languages: Python, SQL

Web Frameworks: Django, FastAPI

Machine Learning Tools & Libraries: HuggingFace, PyTorch, spaCy, NumPy, Pandas, Matplotlib, Scikit-Learn

Development Tools: Docker, Git, Gunicorn, VS Code, Jupyter Notebook, PyCharm, Google Colab

Database Technologies: SQL, MySQL, MongoDB

CERTIFICATIONS

Software Engineer - HackerRank

Artificial Intelligence A-Z: Build 7 AI + LLM and ChatGPT - Udemy (2024)

Python for Machine Learning - Great Learning

Machine Learning A-Z: AI, Python and R + ChatGPT Prize - Udemy

LANGUAGES

English: Fluent

Malayalam: Native