

# Anjalee Thorat

Python Engineer | Backend Systems & Applied AI / GenAI | 1+ YOE

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Location: Hyderabad

## SUMMARY

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**AI / GenAI and Python Backend Engineer** with **1+ year of enterprise experience** at Accenture, specializing in scalable backend systems and AI-driven applications. Proficient in **Python, Django, REST API** development, secure authentication, and database integration. Hands-on experience building **LLM-powered applications, chatbots development, RAG pipelines**, and **agentic AI systems** using **LangChain** and **ChromaDB**. IBM-certified in RAG and Agentic AI, with **AWS** deployment experience and a strong research background in Computer Vision with peer-reviewed publications.

## SKILLS

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AI / GenAI:	LLMs, RAG, LangChain, LangGraph, Prompt Engg, Chatbots, AI Agents
Machine Learning:	PyTorch, Scikit-learn, Regression, Classification, Clustering
Programming Languages:	Python, SQL
Backend Technology:	Django, Django REST Framework, Flask, REST APIs, Microservices
Databases & vector stores:	MySQL, MongoDB, PostgreSQL, ChromaDB, FAISS
Cloud & MLOps:	AWS (EC2, S3, BedRock, Sagemaker), Docker, Kubernetes, CI/CD
Data & Analytics:	NumPy, Pandas, Matplotlib
Other Tools:	Git, Github, Pytest, Postman, VS Code, Google Colab

## WORK EXPERIENCE

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### Accenture.

Pune, MH

APPLICATION DEVELOPMENT ASSOCIATE

October 2023 - July 2024

- Designed and developed end-to-end web applications using Python (Django).
- Designed and implemented RESTful APIs with authentication (JWT) and integrated third-party APIs.
- Collaborated with cross-functional teams using Agile/Scrum, ensuring on-time sprint delivery and stakeholder satisfaction.
- Collaborated with cross-functional teams to design and implement new features and functionalities.
- Supported troubleshooting, debugging and production issue resolution in a managed service environment. Performed extensive code reviews to enforce coding standards and improve application's security and scalability.

## INTERNSHIP

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### CDAC Pune.

Pune, MH

RESEARCH INTERN

September 2021 – May 2022

- Engineered and fine-tuned a cutting-edge YOLOR (You Only Learn One Representation) object detection model, leveraging transfer learning from COCO-pretrained weights to deliver robust performance in aerial imagery scenarios.
- Achieved a commendable 76% mean average precision (mAP), demonstrating the model's effectiveness in detecting minute and spatially dense objects within complex aerial landscapes.
- Conducted an in-depth performance comparison with industry-standard models (e.g., SSD, Faster R-CNN), validating YOLOR's superior detection accuracy and ~88% faster inference
- Gained hands-on experience in model training, evaluation, and performance tuning for real-world computer vision use cases.

## EDUCATION

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### Bachelor of Engineering in Computer Engineering(GPA: 9.5/10)

PUNE UNIVERSITY

Pune, MH

July 2018 - August 2022

**Coursework:** Data Structures, Algorithms, Operating Systems, Database Management Systems, Artificial Intelligence, Machine Learning, Object Oriented Programming

## PROJECTS

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### Smart Invigilate – AI Inspired Supervision

Python | CSS | Javascript | Flask | MySQL

- Pioneered a system for online exam management supporting teachers, students.
- Enabled easy exam creation and participation, improving accessibility by 21%.
- Added analytics features for student and teacher performance tracking increasing insight depth & assessment accuracy by 15%.

### Hospital Management System

Python | Django REST Framework | React | MySQL

- Built a hospital ERP covering patient registration, doctor scheduling, and billing modules.
- Enabled centralized medical records & pharmacy integration, improving service delivery by 30%.
- Added role-based dashboards & analytics, enhancing operational insight and decision-making.

### Food Recommendation RAG Chatbot

Python | ChromaDB | Sentence Transformers | LangChain | RAG | JSON Data

- Developed a semantic search-based food recommendation engine using ChromaDB for vector storage and similarity search.
- Preprocessed food dataset (ingredients, cuisine, tags) and generated embedding vectors using Sentence Transformers.
- Integrated LangChain and ChromaDB pipeline to retrieve top-k relevant dishes based on dietary filters and natural-language queries.

## CERTIFICATE

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- RAG and Agentic AI Professional - IBM
- AWS Generative AI Applications Professional Certificate -AWS
- Machine Learning Foundations – AWS Academy
- Python for Data Science, AI and Development - IBM
- AWS Cloud Practitioner – Simplilearn

## PUBLICATIONS

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- Miniscale Object Detection in Aerial Images Using YOLOR: A Review - *Springer* 27/09/2022
- Finding Instances of Objects in Aerial Images Using Earth Vision Small Scale Dataset - *Grenze International Journal of Engineering and Technology* 25/06/2022