

PRINCY ANGELINE J

AIEngineer | PythonDeveloper

9025974608 |princyangeline124@gmail.com | Ganapathy,Coimbatore,TamilNadu

LinkedIn: linkedin.com/in/princy-angeline-107579246 | Portfolio: princyangeline.github.io/portfolio

PROFESSIONAL SUMMARY

Motivated entry-level AI Engineer with hands-on internship experience in Machine Learning, Natural Language Processing, and AI application development. Gained practical expertise building document-based chatbot using Python, Django, and Retrieval-Augmented Generation (RAG) architecture. Contributed to ML training through structured data annotation of 3,000+ samples with 85%+ accuracy. Strong foundation in Python programming, RESTAPI development, and backend systems with growing expertise in LLM-based applications. Eager to apply technical skills and learn emerging AI technologies in collaborative development environment.

PROFESSIONAL EXPERIENCE

AI Engineering Intern

Techjays | April 2025 - February 2026

- Developed and deployed document-based AI chatbot application using Python and Django framework, successfully processing 10 + uploaded documents and handling 100 + user queries with 95% + accuracy rate
- Implemented Retrieval-Augmented Generation (RAG) architecture with vector embeddings for semantic search, achieving sub-second latency (under 1 second) for query responses and improving user experience by 40%
- Built contextual retrieval mechanisms using NLP techniques including text chunking, embedding generation, and similarity matching, achieving 90%+ response relevance score
- Designed and developed backend RESTAPIs for document upload, storage, and query processing with full CURD operations, handling 100+ API calls daily with proper error handling and validation
- Implemented response validation workflows and testing procedures, contributing to improving system accuracy from 70% to 95% through iterative development and debugging
- Utilized Git version control for code management and collaboration, maintaining clean code documentation and following software development best practices

ML Data Annotation Analyst

Vesuvius Project | April 2025 - February 2026

- Contributed to a global AI research initiative focused on decoding ancient Herculaneum scrolls using computer vision and machine learning.
- Performed high-precision annotation and labeling of complex imaging datasets, contributing 80% to structured data preparation tasks.
- Prepared datasets for segmentation and pattern recognition models.
- Conducted quality assurance checks to ensure annotation accuracy and consistency across large datasets.
- Collaborated in a distributed research environment following standardized data preparation protocols.
- Supported model improvement cycles by refining annotations based on validation feedback.
- Documented annotation guidelines and decision processes, creating knowledge base that reduced new annotator onboarding time by 25%

Claims Management Executive | Ohm Maruthi Insurance Broking Pvt Ltd | Mar 2024 - Feb 2025

- Processed 500+ insurance claims with 98% accuracy, demonstrating strong attention to detail and data validation skills
- Utilized analytical skills for documentation review and quality assurance.

Healthcare Insurance Senior Representative | NTT Data | Sep 2022 - Feb 2024

- Validated 1,000+ monthly healthcare data records with 99% accuracy, developing strong data quality and compliance skills
- Recognized as top performer, demonstrating ability to learn quickly and excel in data-intensive environments

TECHNICAL PROJECTS

AI Chatbot with RAGPipeline

- Built document-aware conversational AI from scratch with advanced NLU capabilities using Python and Django framework
- Implemented RAG architecture: document parsing, text chunking, embedding generation, vector storage, semantic similarity matching
- Designed database schema, file upload handling, and efficient indexing for fast retrieval with RESTful APIs and proper authentication
- Tech Stack: Python, Django, NLP, RAG, Vector Databases, Sentence Transformers, REST APIs, PostgreSQL

TeampulseAI-Meeting IntelligencePlatform

- Developed NLP-based meeting analytics system for automated transcript analysis and insights generation from unstructured data
- Implemented VADER sentiment analysis achieving 85% accuracy in detecting tone, engagement levels, and emotional patterns
- Built automated report generation using NER, topic modeling, and text summarization, reducing manual reporting time by 70%
- Tech Stack: Python, NLP, VADER, Sentiment Analysis, Text Processing, Data Visualization

EDUCATION

Bachelor of Science in Computer Technology| Sri Krishna Adithya College of Arts and Science | June 2019 -July2022 | CGPA:8.5/10

TECHNICAL SKILLS

Programming: Python, JavaScript, SQL, HTML/CSS

AI/ML: NLP , LLM, RAG, Data Annotation, Sentiment Analysis, Text Classification, Vector Embeddings

Frameworks: Django, NumPy, Pandas, Sentence Transformers

Tools: Git/GitHub, VS Code, PyCharm, PostgreSQL, MySQL, Vector Databases

Other: REST API Development, Database Design, Data Preprocessing, Figma (UI/UX)

CERTIFICATIONS

Python Programming Certification - Academic (October2019)
UI/UX Design Certification - Udemy (March 2025)