

# Nikhil Pesala

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Nellore, India  
GitHub | LinkedIn | LeetCode

## PROJECTS

### AUTOMATED MEETING SUMMARIZER | GENAI, SALESFORCE, JENKINS, GITHUB

- Built a pipeline to transcribe and summarize meetings using GenAI and NLP.
- Configured CI/CD: GitHub pushes trigger Jenkins pipelines.
- Automated creation of summarized file objects in Salesforce for real-time insights.
- Improved meeting follow-up efficiency by 40%.

### ADVANCED RAG OPTIMIZATION MODULE | PYTHON, CHROMADB, BM25, LLMs, RAG

- Built a plug-and-play module that upgrades any Naive RAG system into an Advanced RAG pipeline.
- Implemented hybrid retrieval (Vector + BM25), reranking, chunk compression, and freshness-aware scoring.
- Added hallucination reduction techniques, grounding prompts, and citation-based verification.
- Designed modular architecture enabling seamless connection/disconnection without modifying core RAG logic.

### SPOTIFY PLAYLIST AUTOMATION | DOCKER, JENKINS, SPOTIFY API

- Automated daily playlist updates, fetching the latest songs from selected artists.
- Dockerized PowerShell script integrated with Jenkins for CI/CD scheduling.

### HONEY ADULTERATION DETECTION | PYTHON, MACHINE LEARNING

- Designed ML models (LDA, KNN) achieving 92% classification accuracy.
- Reduced manual testing time by 60% through automated preprocessing and classification.

### ADDITIONAL PROJECTS | AWS, TERRAFORM

- Deployed Ubuntu/Apache2 server on AWS by creating VPC, subnet, and EC2 instance with Terraform.

## ACHIEVEMENTS & ACTIVITIES

- Contributed to open-source DevOps GitHub repositories.
- Coordinated events for the Mathematics Club, developing leadership and organizational skills.
- Solved problems on LeetCode; participated in LeetCode contests.
- Active contributor to academic projects and group work, demonstrating teamwork and adaptability.

## EDUCATION

### VIT CHENNAI

B.TECH IN COMPUTER SCIENCE AND ENGINEERING  
Sep 2022 -- Jul 2026 | CGPA: 9.07

### NARAYANA JUNIOR COLLEGE

CLASS XI--XII  
Jul 2020 -- Apr 2022 | 93.5%

### NARAYANA CONCEPT SCHOOL

CLASS X  
Jun 2019 -- Apr 2020 | 98.3%

## SKILLS

### TECHNICAL

Java • MySQL • Python  
AWS (S3, Lambda, EC2)  
Terraform (IaC) • Docker • Jenkins  
RAG • Prometheus • Grafana  
Salesforce Platform

### SOFT SKILLS

Problem Solving  
Teamwork & Collaboration  
Communication  
Adaptability  
Time Management

## CERTIFICATIONS

SQL (Coursera)  
Microsoft Azure DP-900  
Agile Scrum Fundamentals  
DevOps (Oracle)

## LINKS

GitHub:// **NIKHILPESALA1**  
LinkedIn:// **nikhilpesala**  
LeetCode:// **NIKHILpesala**