Nikhil Pesala

nikhilpesala4@gmail.com | (+91)7207250539
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.

AI-POWERED PERSONAL PORTFOLIO | n8n, Pinecone, Supabase, Vercel

- Developed an intelligent portfolio website with semantic search capabilities using Pinecone vector database for content retrieval and n8n for workflow automation.
- Implemented automated deployment pipeline using Vercel's CI/CD infrastructure for continuous integration and delivery.
- Leveraged Supabase for backend data management and real-time database functionality.

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
n8n • 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**