

ANIKET SURJUSE

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Education

Government College Of Engineering, Aurangabad <i>B.Tech in Computer Science & Engineering</i>	2020 - 2024 9.04/10 CGPA
HSC (XII)	2018 - 2019 78.40%
SSC (X)	2016 - 2017 95.00%

Work Experience

AI ML Developer <i>Siemens Energy</i>	July 2024 – present <i>In Office</i>
<ul style="list-style-type: none">Developed an internal GPT-4-powered QA system, reducing information retrieval time by 80% for engineering teams.Built the backend APIs using FastAPI and integrated CosmosDB as a vector database for RAG (Retrieval-Augmented Generation) to enhance response accuracy and context.Automated AWS cloud infrastructure including S3 buckets, Lambda functions, and RDS databases using AWS CDK for infrastructure as code.Implemented CICD pipeline using GitLab to automate deployment.Developed an AI solution that auto-generates comments for customer documents by fine-tuning T5, LLaMA 2, and DistilBERT models, reducing manual commenting time by 90%.Created custom training datasets and used efficient fine-tuning techniques (LoRA, QLoRA, PEFT) to reduce compute cost and improve model performance using Azure ML Studio.Added evaluation steps to monitor outputs and keep model quality in check while staying within cost limits.	
AI ML Intern <i>Siemens Energy</i>	Jan 2024 – June 2024 <i>In Office</i>
<ul style="list-style-type: none">Developed an automated vendor certificate validation system using Google Document AI OCR to extract chemical composition and mechanical properties from raw material certificates and compare against internal standards.Built an LLM-powered agent using LangChain to intelligently compare extracted values, perform unit conversions, and identify compliance discrepancies with 95%+ accuracy.Implemented source tracking and citation system that links each validated parameter to its exact location in the certificate, enabling quality engineers to verify AI decisions and maintain audit trails.Created automated reporting pipeline that generates compliance reports with highlighted deviations, reducing manual certificate review time from hours to minutes while improving accuracy.	

Projects

Road Hypnosis Detection using ML	<u>Source Code</u>
<ul style="list-style-type: none">Built a machine learning system to detect signs of road hypnosis by analyzing driver behavior such as yawning, drowsiness, and eye blinkingUsed the dlib's 68-point facial landmark model for facial landmark detection and applied transfer learning to adapt it to driving scenariosExtracted facial features to identify fatigue indicators and used ML classifiers to flag signs of driver inattention or fatigue.	
AskPDF : Chat with your PDF	<u>Source Code</u>
<ul style="list-style-type: none">Built an intelligent PDF chat application using LangChain and OpenAI GPT models that enables natural language querying of document content with contextual understanding.Implemented RAG (Retrieval-Augmented Generation) pipeline with document chunking, vector embeddings using OpenAI embeddings, and semantic similarity search for accurate context retrieval.Developed Streamlit web interface with PDF upload, text extraction, and real-time chat functionality, processing documents up to 50+ pages.Integrated memory management to maintain conversation context and implemented error handling for various PDF formats and sizes.	

Technical Skills

Languages: Python, C/C++, Java, SQL

ML/AI: PyTorch, TensorFlow, Hugging Face, Scikit-learn, LangChain

Frameworks: FastAPI, Lang Graph, Flask, Streamlit

Cloud: AWS (S3, Lambda, RDS, CDK), Azure OpenAI, Azure ML Studio

Databases: CosmosDB, Vector databases, MongoDB

Technologies: LLMs, Transformers, Agentic AI, NLP, RAG

Tools: Git, GitLab CI/CD, Docker

Achievements

- Received **STAR Award** at Siemens Energy for exceptional performance on AI/ML initiatives and delivering measurable business impact
- Qualified for level 2 of **Flipkart Grid 5.0** hackathon in Software Development Track and **Health+ Track**
- Won **AAROHAN 1.0** coding competition at GECA among 100+ participants

Certifications

- Building Toward Computer Use with Anthropic (DeepLearning.AI)
- Deep Learning Specialization (Coursera)
- Machine Learning Specialization (Coursera)
- Complete Web Development Bootcamp by Angela Yu (Udemy)