Amit Anand

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EDUCATION

•**Rajiv Gandhi Institute of Petroleum Technology** *Jais, Amethi*
B.Tech + M.Tech (CSAI) (CGPA: 8.1 / 10) 2022-27

EXPERIENCE

•**Siemens** *May 2025 – Present*
Technical Intern Bengaluru

– Worked on an in-house project **COSEE (Code Optimisation System for Energy Efficiency)**, aimed at automating performance and power profiling of AI workflows.
– Designed and deployed the full pipeline using **Linux, LangChain, pyJoule**, and **GitHub Actions** for reproducible benchmarks.
– Enabled automatic analysis and reporting of code energy efficiency metrics, improving insight generation speed by over **60%**.

PROJECTS

•**SummAI** | 🎧 | 🔗 *October 2024 – Present*
Multimodal Multitask Summarization and Q&A Tool.

– Built an AI-driven platform to **summarize and process text, audio, video, and documents** with **75% Rouge-L accuracy** and **90% Q&A accuracy.**
– Integrated Groq models (**Mixtral, Gemma, Llama 3-8B**), **Whisper**, and **LangChain pipelines**, achieving a **3-second average** processing time per task.
– Deployed on **Streamlit Cloud**, supporting **128k+ tokens** and improving productivity for **1000+ users**.

•**Amazon ML Challenge - 2024** *September 2024*
Text extraction and prediction from images using LLMs

– Implemented a hybrid approach combining OCR (**Tesseract and EasyOCR**) with advanced **NLP**, ensuring we captured as much information as possible.
– Fine-tuned Meta's **LLaMA 3.1 8B model** to predict quantities and units based on the extracted text.

PUBLICATIONS

• **A Low-Overhead CNN-Based Approach For Sleep Posture Recognition With Device-Free Monitoring System using UWB Radar**
EAI BODYNETS 2024 (Accepted)
• **Knowledge Distillation-Based AIoT Framework for Efficient Wireless Gesture Sensing in B5G/6G Networks**
IEEE Network Magazine 2025 (Accepted)

KEY COURSES TAKEN

• Data Structure, Data Mining, DBMS, Artificial Intelligence, Web Development, Operating System, Deep Learning

TECHNICAL SKILLS

• **Languages:** C/C++, Python, JavaScript, HTML5, CSS3, SQL (MySQL)
• **Frameworks & Tools:** Git/GitHub, VS Code, Docker, Flask, Streamlit, LangChain, LangGraph, Figma, Overleaf, Draw.io
• **Libraries & APIs:** pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, OpenCV, Hugging Face Transformers
• **AI/ML & NLP:** CNN, RNN, Transformers, LLMs (Gemma, Mixtral, LLaMA), RAG, Whisper, Prompt Engineering, Fine-tuning, Evaluation
• **DevOps & Deployment:** Docker, Streamlit Cloud, GitHub Actions, Hugging Face Spaces

ACHIEVEMENTS

•**Best Paper Award** - Oral Presentation Category, EAI - BODYNETS *2024*
•**Amazon ML Challenge 2024:** Ranked under **Top 200** among 75,000+ participants in India. *2024*

POSITIONS OF RESPONSIBILITY

•**Secretary,** Sports Council & ENERGIA 2025 *August 2024 – Present*
•**UG Tutor,** Professional Communication : Tutorship to UG 2nd year student at RGIPT. *January 2024 – Present*