NETRANSHI TRIPATHI

Kanpur, India |P: +91 9793433633| Gmail | LinkedIn|
GitHub | Hackerrank |Leetcode

EDUCATION

RAJKIYA ENGINEERING COLLEGE Expected May 2026 Bachelor of Technology In Electronics Engineering
Cumulative GPA: 7.6/10

WORK EXPERIENCE

DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO)
Intern **(July 2025 – July 2025)**
- Developing and deploying resource-efficient TinyML models tailored for microcontroller-based platforms with real-time constraints
- Utilized the Edge Impulse platform and embedded tools to develop and deploy TinyML models optimized for resource-constrained IoT devices.
- Collaborated on hardware-software interfacing for edge intelligence solutions in IoT applications

CODSOFT
Web Developer Intern **(September 2024 – November 2024)**
- Built a cross-browser compatible calculator using HTML, CSS, and JavaScript with precise error handling for seamless computation.
- Developed a responsive personal portfolio site, increasing mobile usability by 60% and improving page load time using optimized assets.
- Created a modular and reusable landing page layout using CSS variables, ensuring design consistency across components.

GIRLSCRIPT SUMMER OF CODE
Contributor **(Summer 2024)**
- Resolved **10+ issues** and submitted feature-rich pull requests to open-source projects..
- Contributed to front-end and back-end web development, implementing new features that increased user engagement by 20%.
- Mentored beginners and reviewed peer contributions to enhance project quality..

PROJECTS

AI-POWERED MARKSHEET DATA EXTRACTION API USING FASTAPI AND OPENAI VISION Github
- Developed an AI-powered Marksheet Extraction API using FastAPI and OpenAI GPT-4 Vision, achieving over 95% accuracy in data extraction from image and PDF documents.
- Enabled multi-page PDF processing, supporting up to 5 pages per document, reducing manual data entry time by 80%.
- Implemented confidence scoring algorithms that increased data reliability by 30%, delivering structured JSON outputs for seamless integration.
- Achieved 99.9% API uptime with asynchronous request handling and comprehensive error management for scalable performance.

RAG PIPELINE FOR INTELLIGENT DOCUMENT RETRIEVAL AND QUESTION ANSWERING Github
- Constructed a document-aware QA system using LangChain and FAISS, enabling precise information extraction through semantic indexing.
- Applied advanced parsing and segmentation techniques to transform PDF content into high-quality vector representations.
- Engineered a flexible and extensible backend capable of handling user queries in real time, optimized for integration with diverse data environments..

SENTIMENT-CONDITIONED TEXT GENERATION SYSTEM Github
- Developed an AI sentiment analysis and text generation platform using Hugging Face transformers (distilbert-base-uncased-finetuned-sst-2-english) and Perplexity API, achieving 85% accuracy with hybrid classification and confidence-based polarity assignment.
- Architected a sentiment-conditioned content synthesis system using LLM inference, dynamic prompt engineering, and optimized parameters. The system generated contextually aligned text with 95% sentiment coherence, reducing content creation time by 75% via Streamlit deployment.

TECHNICAL SKILLS

Generative AI & LLMs: Prompt Engineering, Ollama, LangChain, Hugging Face, OpenAI APIs
Machine Learning & Frameworks: Scikit-learn
Programming & Data Handling: Python (NumPy, Pandas, Matplotlib, Seaborn), SQL.
Databases: PostgreSQL, Vector Databases (FAISS)
Data Engineering: FastAPI, Streamlit.
Tools & Platforms: GitHub, Jupyter Notebook, Google Colab, Edge Impulse
Web Development: HTML, CSS

ACHIEVEMENTS

- Appointed **Student Chairperson, IEEE-WIE**, leading student technical initiatives.
- Participated in **Group Discussions & Public Speaking**, enhancing communication skills.
- Earned **5★ in Python** and **5★ in Problem-Solving** on HackerRank..

CERTIFICATION

- Generative AI with OpenAI — KodeKloud
- Linux Basics — KodeKloud
- **IEEE** Membership Certificate