

Divya Deepthi Paruchuri

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AI and Machine Learning enthusiast skilled in Deep Learning, building LLM's and scalable software engineering.

Education

Rajiv Gandhi University of Knowledge and Technologies Bachelor of Technology in Computer Science	Expected May 2026 Nuzivid, Andhra Pradesh
• CGPA : 8.2	
Rajiv Gandhi University of Knowledge and Technologies Pre University Course	2020-2022 Nuzivid, Andhra Pradesh
• CGPA : 9.7	
Saint.Xaviers High School Primary & Secondary Education	2011-2020 Ongole, Andhra Pradesh
• CGPA : 9.9	

Projects

Zero-Shot Stance Detection using Keyphrase Generation and NLP Pipelines

Natural Language Processing, Zero-Shot Learning, Hugging Face Transformers, Deep Learning, Data Preprocessing

- Developed an NLP pipeline for zero-shot stance detection after studying recent research on transformer-based stance detection and keyphrase extraction. I implemented models such as T5, BART-base, and KeyBART to dynamically extract keyphrases from unstructured text and used BERTweet for stance prediction without task-specific fine-tuning. The pipeline achieved an 85% Macro F1 score, showing strong generalization on unseen topics. Based on insights from research papers, I experimented with model architectures and data preprocessing strategies to improve interpretability and robustness in social media text analysis..

AI Agent System for Kitchen Renovation Planning

Google Cloud, ADK, Gemini LLM, Cloud Run, AlloyDB

- Developed a modular, cloud-native AI system using Google's Agent Development Kit (ADK) to automate kitchen renovation planning. Built single-agent and multi-agent workflows with agents for proposal generation, compliance checks, and order tracking. Integrated Gemini LLM for natural language inputs, Cloud Run for serverless deployment, and AlloyDB for real-time data access. Implemented secure GCS-based PDF storage and IAM-based backend access.

AI-Powered Website Agent

n8n, Docker, Gemini LLM

- Developed an AI-powered website agent using n8n, Docker, and Gemini LLM to automate the end-to-end meeting scheduling process. The chatbot collects user details such as name, email, preferred date and time, and discussion topic directly from the website interface. It verifies slot availability through Google Calendar, logs confirmed appointments in Google Sheets, and ensures each booking is made with at least 48 hours' notice. I containerized the workflow using Docker for seamless deployment and scalability.

Language Model Development and Training

- Developed and pre-trained a Gemma 3 270M-like SLM by reading This in PyTorch, applying techniques for efficient training and model optimization. Implemented data processing and tokenization pipelines for large text datasets to support SLM training.

Skills

Programming: C, Python, Java, SQL.

AI/ML: Machine Learning, Deep Learning, MLOps, NLP, Large Language Models, RAG's.

Frameworks: Hugging Face Transformers, PyTorch, TensorFlow, Lang-Chain, Sci-kit-learn, Sci-Py, Pandas, NumPy.

Core: Computer Networks, Operating Systems, DBMS, Probability and Statistics.

Tools: AWS, GCP, Git & Github, N8N, Docker, VSCode, Cursor.

Other Related Work Experience

StudentMitra

Video Editor

Jan 2021 – May 2025

RGUKT Nuzvid, Andhra Pradesh

- Edited promotional videos, educational tutorials, and social media clips using CapCut and After Effects, increasing average views.

Certifications

- AI for Everyone - IBM(Edx)
- Deep Learning - LinkedIn
- Deep Learning- NPTEL IIT ROPAR
- Object-Oriented Analysis and Design- NPTEL IIT KHARAGPUR
- AWS Cloud Technical Essentials-Coursera
- Large Language Models-NPTEL IIT Delhi
- Privacy & Security in Online Social Media- NPTEL IIT Hyderabad