

Adarsh Tomar
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ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Sep,2022-Present	B.Tech in Computer Science	Graphic Era Hill University	8.92/10.00
2022	XII - C.B.S.E	KENDRIYA VIDYALAYA IMA	92.00 %
2020	X - C.B.S.E	KENDRIYA VIDYALAYA IMA	91.60 %

PROJECTS

- **Stock Price Prediction Model** (Apr, 2024 - May, 2024) : Built a predictive model using Long Short-Term Memory (LSTM) networks to forecast stock prices based on historical data. Applied advanced data pre-processing techniques,including MinMax scaling, to normalize features and improve model performance. Implemented multi-step forecasting to enhance the accuracy of future price predictions. Evaluated the model using robust metrics,achieving a prediction accuracy of 85 percent. Key Skills: Deep Learning, Data Preprocessing, Time-Series Analysis, Python
- **Omni-Source AI Chatbot Generator** (Jan 2024 - Mar 2024) : Develop a Framework that lets anyone create a custom chatbot from their own data. The information be fed from websites, YouTube videos, and PDFs to create a smart, centralized knowledge base. To make sure the chatbot's answers were accurate and reliable, I developed a RAG pipeline with Llama 3.2. The best part? The tool automatically generates a simple JavaScript snippet, so you can embed the finished chatbot on any website instantly from the console.
Key Skills: Full-Stack Development, Large Language Models (LLM), Llama 3.2, Retrieval-Augmented Generation (RAG), Data Scraping, API Design, Python, JavaScript.
- **NLP-Powered LLaMA-3-Enabled PDF Parser** (Nov, 2024) : Created a smart PDF Parser that uses LLaMA 3.2 to understand PDF documents with both text and images content. I designed and built the backend infrastructure, including the RESTful APIs and implemented RAG. This project handle a high volume of requests smoothly. This allows users to "ask" questions about their documents and get context-aware answers back quickly.
Key Skills: Backend Development, API Integration, Scalable Architecture, Python, Natural Language Processing (NLP), LLaMA 3.2, TensorFlow, PyTorch, Data Preprocessing, RESTful API Design.

TECHNICAL SKILLS

- **Frontend Development:** JavaScript, HTML5, CSS3, Responsive Web Design, UI Development, Jinja2 Templating
- **Backend and API Integration** RESTful API Design, Scalable Backend Services, Microservices Architecture, FastAPI, Flask
- **Actively Developing** GoLang, ReactJS, NextJS, Kubernetes, Redis
- **DevOps, Cloud and Caching:** Git, Docker, CI/CD Principles, Familiarity with Cloud Platforms (GCP/ Azure)

SOFT SKILLS

- **Teamwork Collaboration:** Experience working in teams on both class and extracurricular coding projects.
- **Problem-Solving:** Adaptability in finding creative and efficient solutions to technical challenges.
- **Leadership:** Experience taking the lead on coding projects or assignments.

RESEARCH PAPERS

- **Fortifying Cybersecurity: Authored a research paper on 'Fortifying Cybersecurity:** Harnessing the Power of Artificial Intelligence,' exploring the integration of AI techniques to enhance security measures against evolving cyber threats.
- **Revolutionizing Healthcare: Unveiling the Transformative Impact of AI and Deep Learning in the Era of Intelligent Medicine :** Authored a research paper titled 'Revolutionizing Healthcare: Unveiling the Transformative Impact of AI and Deep Learning in the Era of Intelligent Medicine,' exploring cutting-edge AI technologies and their implications for modern healthcare .