ADIRTHA BORGOHAIN

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Experience

Aqxle   **Bengaluru, India/Remote**
AI Research Engineer   *Aug 2025 – Present*

- Building AI Agents for the marketing flywheel that helps marketers & marketing/media researchers get from data to insights very quickly, using a patent-pending approach to taxonomy normalization.

VedTechBio   **Bengaluru, India/Remote**
Manager - Data Science & AI Applications   *July 2023 – Aug 2025*

- Responsible for the development and delivery of VedTechBio's **Generative AI** platform for drug research & discovery, **RxAgentAI**. Features like Report Generation, AI Researcher are integrated into the platform that enhance drug research pipeline in terms of speed & efficiency.
- Developed **Autonomous AI Agents** using **reasoning** based LLMs to handle domain-specific tasks in the drug development pipeline leveraging multi-agent frameworks like **PydanticAI**, **Langgraph**, **Agno**, etc.
- Built and scaled an AI-powered analytics platform that delivers instant insights and actionable intelligence by connecting related research papers, extracting key data, and streamlining analytical workflows for big pharma companies, leveraging a database of **200M+** papers, **50M+** Open Access PDFs, and **100+** public data sources.

Alphameld   **Guilford, USA/Remote**
Senior Data Scientist   *March 2022 – July 2023*

- Built a **Entity & Relation Extraction** pipeline with **Entity Linking** for Alphameld's proprietary AI platform to extract biomedical entities from texts, disambiguate them to their normalized forms & assign relations between them. This improved prediction accuracy by >**25%** in comparison to previous rule-based implementations.
- Led the development of **ChatAlphaMeld**, a biomedical chat multi-agent tool with web access leveraging LLMs with **chain-of-thought (CoT)** reasoning to decompose user queries and structure plans. It uses **Retrieval Augmented Generation (RAG)** to provide accurate, well-informed responses, streamlining the research process for drug researchers and reducing hypothesis generation time by over **4x**.
- Developed **AlphaClinMeld**, a proprietary clinical trial design platform leveraging state-of-the-art **LLMs**, enhanced with a **human-in-the-loop** feedback system to ensure precise alignment with user requirements. Seamlessly integrated with **Chainlit** for a superior UI experience, markedly elevating trial design efficiency & speed.

Netenrich   **Bengaluru, India**
Data Science Analyst (prev. Intern)   *Feb 2020 – March 2022*

- Deployed text classification models using word & character embedding methods: **chars2vec, AlBERT** to filter out piracy-related text content from curated articles for a cyber-intelligence news platform, **KNOW** (know.netenrich.com). Designed the **clustering algorithm** for clustering similar news articles in the platform.
- Built NLP based **multi-task regression & classification** solutions to improve efficiency & reduce manual overload in SLA response times for incoming issues & tickets
- Built **Named Entity Recognition Models (NER)** using **BERT** & **Attention** based deep learning architecture for detection of cyber threat entities in raw text sources, improving the accuracy & efficiency of the task from the previous implementation of rule-based models by more than **2x**.
- Designed a probabilistic graph-based **Bayesian network architecture** to determine the root causes behind a failure or an issue. This resulted in speeding up the root cause analysis process **from hours to minutes.**

Technical Skills

Languages: Python, C, C++, SQL, HTML/CSS
Tools/Frameworks: Git, Tensorflow, Keras, spacy, Docker, Kafka, RabbitMQ, ElasticSearch, transformers, Redis, FastAPI, Postgres, langchain, langgraph, llama-index, pydanticAI, Ollama, Agno

Personal Projects

reportAI | *langchain, pyppeteer*   ⊙
- A python-based tool that generates comprehensive PDF research reports from conversational text using **Generative AI**

intelliweb-GPT | *langchain, llama-index, trafilatura, transformers*   ⊙
- Intelligent search engine/QA module that uses **GPT** models to provide accurate, relevant & recent answers from Google News/Web, & can also directly answer user queries using GPT's training knowledge.

Education

Tezpur University   **2016 − 2020**
*Bachelor of Technology in Computer Science, **CGPA:** 8.51/10*   *Tezpur, Assam*