Aditya Ghai

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EDUCATION

- **Indian Institute Of Information Technology Jabalpur** — Jabalpur, India
  Bachelor of Technology - Computer Science and Engineering; GPA: 9.5 — *May 2022 - May 2026*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

SKILLS AND COMPETENCIES DOCUMENT

- **Languages:** Python,C++, SQL, C
- **Frameworks:** scikit-learn, NLTK, SpaCy, TensorFlow, Keras, Flask , HuggingFace , Pytorch
- **Tools:** GIT, PostgreSQL, MySQL
- **Platforms:** Linux, Windows, Arduino, Streamlit

EXPERIENCE

- **Bezu AI** — Remote
  Machine Learning Intern — *Jun 2024 - Present*
  - **Cost Reduction**: Reduced overall cost by 600% by switching to LLaMA3 70b.
  - **Model Fine-Tuning**: Finetuned base model on web-scrapped data and deployed for inference on replicate.
  - **Python Backend**: Moved the whatsapp app architecture from nodejs to python.

- **Zep Analytics** — Remote
  Data Science Intern — *Dec 2023 - Jan 2024*
  - **Real World Client Projects**: Built AI/ML based solutions utilizing diverse tech stacks, including Flask, Vector DB, and Hugging Face Pipelines, to deliver tailored solutions.
  - **Insurance Claim Automation**: Used NLTK, cosine similarities, and LangChain to classify claims.
  - **LLM Based Research**: Tried and tested various LLMs for specific purposes including LLaMA, Mistral, and RoBERTa.

PROJECTS

- **AI Badminton Game Coach** - https://github.com/Team-Phoenix-Force/ShuttleSensei — April 2024
  - Implemented ActionFormer and Fast Slow Network for TAL research paper to build an enhanced model.
  - The model takes badminton playing videos as input, providing insights about shot selection graphically and detailed descriptions of each rally.
  - Achieved a mean average precision of 91, outperforming the previous model's 78.

- **SureBot** - https://mainpy-ckn2aqdwyvr3n4pvep6koz.streamlit.app/ — Oct 2023
  - Developed and deployed a GenAI-based QnA Chatbot with a Streamlit UI.
  - The chatbot effectively utilizes user-provided trusted sources, ensuring the use of accurate and up-to-date information to generate responses.
  - It demonstrates a higher level of precision when compared to existing LLMs such as Bard and ChatGPT.

- **Article Filter & Summarizer**- https://github.com/adityaghai07/Article-Filter-Summerizer — Feb 2024
  - Developed an article searcher and summarizer leveraging The General News Dataset from Kaggle.
  - Utilized collaborative filtering techniques including tokenization, stop-word removal, stemming, and TF-IDF vectorization for retrieving relevant articles.
  - Employed Hugging Face's pipelines with the Facebook BART model for summarization.

HONORS AND AWARDS

- **MLH HackByte 2.0 Grand Winner** - Built an AI Based Game Coach achieving a mean average precision of 91, providing detailed graphical and point-by-point analysis.

- **Smart India Hackathon Finalist 2023** - Built Interactive VoiceBot of Chacha Chaudhary for Ministry Of Jal Shakti.

- **IIT Roorkee ThermaOracle Grand Winner** - Temperature prediction modelling competition where we achieved a R2 Score of 0.91.

- **AI BioInnovate Challenge IIT Jodhpur Winner** - Built a Robust Computationally Efficient Clustering Ensemble for the MOSES Dataset, achieving a silhouette score of 0.72.

- **AnalyticaX IIT Indore Winner** - Case Study based EDA and ML Competition for a vaccination dataset where we showcased a benchmarking 0.872 10-Fold Stratified Cross-Val ROC-AUC Score.