

Aditya Ghai

LinkedIn: <https://www.linkedin.com/in/aditya-ghai/>

Github: <https://github.com/adityaghail07>

Email: adityaghailbdrp1@gmail.com

EDUCATION

- **Indian Institute Of Information Technology Jabalpur** Jabalpur, India
Bachelor of Technology - Computer Science and Engineering; GPA: 9.1 *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, FastAPI, HuggingFace, Pytorch
- **Tools:** GIT, PostgreSQL, MySQL, MongoDB
- **Platforms:** Linux, Windows, Arduino, Streamlit

EXPERIENCE

- **Bezu AI** Remote
Machine Learning Intern *Jun 2024 - Present*
 - **Founding Team:** Collaborated with 2 co-founders to build a real world product with 15000+ user base.
 - **Model Fine-Tuning:** Successfully fine-tuned a base model using 50,000 web-scraped custom data points, improving accuracy by 15%. Deployed the model for real-time inference on Replicate.
 - **Python Backend :** Transitioned the entire backend architecture from Node.js to Python, reducing server response time by 25% and enhancing scalability to support over 5000 concurrent users.
- **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, delivering tailored solutions to over 6 clients.
 - **Insurance Claim Automation:** Developed a core NLP-based end-to-end solution that classified over 30,000 claims with 95% accuracy, reducing processing time by 40%.
 - **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
 - End to end game coach to provide player analytics based on movement and shot selections with relevant graphs and customized reports.
 - Implemented ActionFormer and Fast Slow Network for Temporal Action Localization (TAL) research paper, building an enhanced model with 20% improved accuracy.
- **GenRAG** - <https://github.com/adityaghail07/GenRAG> Jun 2024
 - Terminal tool designed to set up a Retrieval-Augmented Generation Pipeline Locally.
 - Built from scratch without any high-level frameworks or vector databases, handling over 10,000 page documents and achieving a 90% retrieval accuracy.
- **TLDR This** - <https://github.com/adityaghail07/Article-Filter-Summerizer> Feb 2024
 - Developed an article searcher and summarizer leveraging The General News Dataset from Kaggle, processing over 100,000 news articles.
 - Utilized collaborative filtering techniques including tokenization, stop-word removal, stemming, and TF-IDF vectorization, achieving a 90% relevance accuracy in retrieving articles.

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 an R2 Score of 0.91.
- **IIT Indore AnalyticaX Grand Winner** - Vaccination prediction competition where we achieved stratified cross val ROC-AUC score of 0.87.
- **AI BioInnovate Challenge IIT Jodhpur Winner** - Built a Robust Computationally Efficient Clustering Ensemble for the MOSES Dataset, achieving a silhouette score of 0.72.