# Debasish Dhal

📞 +91 8917548570 | [E-mail](#) | [LinkedIn](#) | [GitHub](#) | [HuggingFace](#) | [Scholar](#) | Notice period : 1 month

## EDUCATION

**National Institute of Science Education and Research, Bhubaneswar, India**   CGPA: 6.96/10.0
*Master of Science in Physics, Minor in Mathematics*   *August 2017-May 2023*

**National Institute of Technology, Rourkela, India**   CGPA: 7.97/10
*B.Tech in Chemical Engineering (Voluntarily left after one year)*   *2016-2017*

**Ravenshaw College, Cuttack, India**   Percentage: 87.33%
*Higher Secondary Education in Science*   *2014 - 2016*

## EXPERIENCE

**GenAI Freelancer**   May 2024 – December 2024
*Remote*
- Built ShopIntel, an AI-powered e-commerce ChatBot for Shopify stores. (Demo)
- Goal was to create customized ChatBots for clients in under five minutes, enhancing customer engagement.

**AI Engineer**   February 2023 – Present
*OdiaGenAI Team*   *Remote - Intern converted to Member*
- Co-Developed *Acharya*, an AI-tutor, aimed at helping Hindi-medium students. (Demo)
- Contributed towards development of LLMs in Indic languages. Models can be found here.
- Curated, pre-processed and shipped various datasets for LLM training. Blogs written by me can be found here.

**Associate - Founder's Office**   January 2025 - Present
*Tamada Media*   *Hyderabad, India*
- As part of the New Initiatives department, my role is to identify business opportunities.
- Reduce time and effort in CGI video creation by using AI tools.

## PROJECTS

**Master's Thesis (GitHub)** | *Python, Machine Learning, Data Visualization, FORTRAN*   June 2022 - June 2023
- Developed and fine-tuned ML models to predict cloud parameters i.e. Cloudy/Clear discrimination, Cloud top height, etc. from radiometric data of INSAT-3DR satellite
- Collocated 5 TB of INSAT-3DR and CLOUDSAT data to create a dataset correlating cloud parameters with radiometric data.
- Developed ML-pipelines to use developed models for generation of our own maps for cloud parameters

**Series of Pet Projects** | *YouTube API, Python, RegEx*
- Developed a web-app to calculate statistics of a YouTube playlist (Demo)
- Developed a web-app to help people with pronunciation of various languages, e.g. Polish, Turkish etc. (Demo)

## TECHNICAL SKILLS

**Languages**: Python, C++, JavaScript/TypeScript, Fortran, MATLAB
**Skills**: LLM pipeline/fine-tuning/inference/evaluation, Data analytics, Machine learning, Scientific programing
**Database**: MongoDB, MySQL
**Tools**: Git/GitHub, Power BI, Apache PySpark, Docker, HuggingFace, Postman, JIRA, Linux, Wandb, LaTeX
**Frameworks**: FastAPI, React

## INTERNSHIPS, CONFERENCES AND WORKSHOPS

**Generative AI** | *LLMs, Python, HuggingFace, API, Large File Handling*   June 2023 - August 2023
- Internship with OdiaGenAI organization, where I fine-tuned LLMs and prepared datasets for fine-tuning
- Participated in Workshop on Asian Translation 2023. Fine-tuned LLMs for Hindi, Bengali & Malayalam
- Co-authored two papers paper 1 & paper 2 on end-to-end LLM fine-tuning for Indic languages

**Odisha AI ML Conference 2023** | *Speech Recognition, Data generation, Chatbot*   October 2023
- Presented at Odias in AI ML Conference 2023 (view), as part of Team OdiaGenAI

**Generative AI and LLM workshop** | *LLM Inference, LLM Quantization, Data generation*   December 2023
- Presented at Generative AI and LLM workshop in two sessions (view)