

ABHISHEK GAUTAM

Associate Data Scientist · Machine Learning & Deep Learning · IIT Guwahati

Bengaluru, India | abhishek.gautam.iitg@gmail.com | [LinkedIn](#) · [GitHub](#) · [Kaggle](#) · [Portfolio](#)

Data Scientist specializing in speech AI for Indic languages — fine-tuning open-source ASR, TTS, turn-detection, and speaker-verification models in production at NoBroker. Top-5% Kaggle Notebooks Expert and repeat national hackathon finalist (Goldman Sachs, BNY, Amex)..

EXPERIENCE

NoBroker (ConvoZen.ai) — Associate Data Scientist

May 2025 – Present

Bengaluru, India

- Fine-tuned **turn detection** and **backchanneling** models for Indic languages, owning end-to-end data preparation methods and pipelines.
- Designed and tested **speaker verification** on live calls, achieving Equal Error Rate of 30%.
- Fine-tuned Conformer-based **STT** and **TTS** models for production multilingual speech systems.
- Implemented **Answering Machine Detection (AMD)** using neural and heuristic approaches, reducing voicemail/IVR pickups by 70% with sub-600 ms latency.

PROJECTS

JUGNUU

[website](#) · May 2026

- Developing a platform to help backpackers, solo travellers, digital nomads and people in India discover and connect with verified, like-minded travel companions.
- Driving the end-to-end execution, combining brand development and problem-statement validation with technical implementation.

LODESTAR — Flood Analysis from Mobile Camera Data (Prof. D. R. Neog, IIT Guwahati)

Apr 2025

- Contributor to a €1.75M NWO Merian-funded project; evaluated data preparation strategies for water depth estimation from images.

ReviewRush — Multi-PDF RAG Q&A System

[GitHub](#) · Jun 2024

- Multi-PDF query system on Gemini + Pinecone using retrieval-augmented generation, with conversational memory over rolling-window.

Image Caption Generator (Coding Club, IIT Guwahati)

[GitHub](#) · Jun 2023

- Built and deployed a VGG16 + LSTM encoder-decoder that generates natural-language descriptions from images, reaching a BLEU score of 0.51.

HACKATHONS & COMPETITIONS

- **Goldman Sachs India Quant Hackathon 2024** | National Finalist (Top 5 of 7,000+) | auction-volume prediction and option pricing.
- **BNY – IIT Guwahati Hackathon 2024** | Runner-Up | fraud and defaulter detection from bank statements and credit history.
- **Amex Campus Challenge 2024** | Round 2 (15 of 676) | T20 match-winner prediction with XGBoost, LightGBM, and CatBoost.
- **JLR Innovate-48 ML Hackathon 2023** | Runner-Up | anomaly detection in wheel-rotation time-series sensor data.

EDUCATION

Indian Institute of Technology, Guwahati

2021 – 2025

B.Tech in Engineering Physics, Minor in Product Design · **CGPA 7.88**

TECHNICAL SKILLS

Languages: Python, C++, SQL

Data & Tools: NumPy, Pandas, Streamlit, Git, Docker, MySQL, Jupyter

Coursework: Pattern Recognition & ML, Recommendation Systems, Linear Algebra, Statistics; Deep Learning & ML in Production

ACHIEVEMENTS & LEADERSHIP

- **Dr. Shankar Dayal Sharma Gold Medal**, IIT Guwahati — awarded for all-round excellence (2025).
- **Kaggle Notebooks Expert** — ranked in the top 5% globally (highest 2,566 of 61,000+).
- **Film & Cultural:** Best Institute Secretary, Cultural Board, IIT Guwahati (2023–24); Gold & Silver medals in Short-Film Making across three Inter-IIT Cultural Meets.