

# Arnab Banerjee

Kolkata, West Bengal, India

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🐙 [github.com/the-blue-panther](https://github.com/the-blue-panther) — **in** [linkedin.com/in/arnab-banerjee-1740662a4](https://www.linkedin.com/in/arnab-banerjee-1740662a4)

## Summary

Math-driven AI enthusiast with hands-on experience in NLP, Deep Learning, and Big Data. Eager to contribute and grow through impactful internship opportunities.

## Education

<b>MSc in Big Data Analytics</b> Ramkrishna Mission Vivekananda Educational and Research Institute, India	<i>2024 – Present</i>	<b>Higher Secondary (Class XII)</b> Behala Aryya Vidyamandir (HS), WBCHSE Percentage: 82%	<i>2015 – 2017</i>
<b>MSc in Mathematics</b> Dakshin Dinajpur University, India CGPA: 8.72	<i>2021 – 2023</i>	<b>Secondary (Class X)</b> Behala Aryya Vidyamandir (HS), WBBSE Percentage: 89.86%	<i>2015</i>
<b>BSc in Mathematics (Hons.)</b> New Alipore College, University of Calcutta Percentage: 78.63%	<i>2017 – 2021</i>		

## Skills

**Languages:** Python, C++, R, Java (beginner), LaTeX  
**Libraries/Tools:** NumPy, Pandas, Scikit-learn, TensorFlow, Manim, Git, Jupyter  
**Concepts:** Machine Learning, Deep Learning, NLP, Computer Vision, Hadoop, MapReduce, Data Analysis, Statistical Modelling

## Projects

<b>Speech-to-Text Script (Benglish NLP)</b> <i>Completed</i> Fine-tuned Whisper for Bengali-English code-switched transcription. <i>Tasks:</i> Dataset creation, multilingual fine-tuning <i>Tools:</i> PyTorch, Hugging Face, Librosa	<b>Malaria Diagnosis (Computer Vision)</b> <i>Ongoing</i> CNN for malaria detection from blood smear images. <i>Tasks:</i> Image preprocessing, data augmentation <i>Tools:</i> TensorFlow, Keras, OpenCV
<b>Wine Quality Classifier</b> <i>Completed</i> ML model to classify red wine quality; achieved <b>89.5% accuracy</b> with Gradient Boosting. <i>Tasks:</i> IQR filtering, feature selection, ROC-AUC eval <i>Tools:</i> Scikit-learn, Pandas, Seaborn	

## Experience

**Math Tutor (Freelance)** *2022 – Present*  
Assisted high school and undergrad students in advanced math topics, including calculus, linear algebra, and probability. Created custom lesson plans using interactive tools.

## Ongoing Learning

- 100 Days of Code: The Complete Python Pro Bootcamp – Udemy (In Progress)
- A Deep Understanding of Deep Learning (with Python intro) – Udemy (In Progress)
- Artificial Intelligence A-Z 2025: Agentic AI, Gen AI, and RL – Udemy (In Progress)

## Interests

Anime, Football, Playing Guitar & Cajon, Thriller literature, Machine Learning & AI, Sitcoms, Fantasy fiction