

PIYUSH MAJI

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EDUCATION

Indian Institute of Technology Hyderabad

Expected July 2027

M.Sc. in Physics / Telangana, India CGPA: 7.5/10

Hooghly Mohsin College

August 2024

B.Sc. in Physics / West Bengal, India CGPA: 7.28/10

PROJECTS

Voice Assistant with AI Integration (Friday)

Self-Initiated Project

- Developed a Python-based voice assistant capable of wake-word detection, speech recognition, and command execution using **SpeechRecognition** and **pyttsx3**.
- Implemented modular command routing for tasks such as web navigation, music playback, time/date queries, and AI-based conversational fallback.
- Integrated Python libraries for data preprocessing, time-series analysis, and structured data handling using **NumPy** and **Pandas**.
- Focused on clean project structure, multithreading for non-blocking speech output, and cross-platform compatibility (macOS/Windows). Source code available on **GitHub** with modular Python architecture.

Computational Modeling of Particle Motion in Brownian Systems

Prof. Anupam Gupta, Department of Physics, IIT Hyderabad

- Developed a Python workflow using **NumPy**, **Pandas** to visualize particle trajectories, and compute Mean Squared Displacement (MSD).
- Applied log-log regression on MSD data to classify motion types (diffusive, sub-diffusive, super-diffusive), enabling automated scientific interpretation.

SKILLS

Hard Skills: Python, NumPy, Pandas, Data Analysis, Machine Learning, C, LaTeX, MS Office

Soft Skills: Communication, Problem-Solving, Critical Thinking

CERTIFICATIONS

- Completed DataCamp course "Machine Learning Fundamentals in Python."

LEADERSHIP & MANAGEMENT

Coordinator(Inbound and Multimedia), International Relations Cell, IIT Hyderabad

Guided exchange students (mainly from Japan and the US) by organizing orientation sessions, cultural events, and local school visits to promote cross-cultural understanding, and also arrange outbound tours

Member of Infocus (Photography Club, IIT Hyderabad)

Managed logistics and promotion for campus-wide photography contests and exhibitions.