Subrata Bhuin

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EDUCATION

B. P. Poddar Institute of Management and Technology — Kolkata, India
B.Tech in Computer Science & Engineering; CGPA: 8.90 — *2021 – 2025*

Mankar High School — West Bengal, India
Higher Secondary (WBCHSE); 87.2% — *2019 – 2021*

Ramkrishna Ashrama Vidyapith — West Bengal, India
Secondary (WBBSE); 83.28% — *2019*

SKILLS SUMMARY

- **Programming & Frameworks**: Python, C, SQL, Flask, FastAPI, Streamlit
- **AI & ML**: Supervised Learning, NLP, Computer Vision, Time Series, Generative AI, RAG, LLM Integration
- **Cloud & MLOps**: AWS (EC2, S3, Lambda, Bedrock, SageMaker), Snowflake Cortex (Analyst, Agent), Git, CI/CD, Workflow Automation
- **Applied Domains**: Healthcare, Agriculture (Satellite AI), FMCG (CV), Environment (AQI Prediction)
- **Tools**: HTML, CSS, JS (Basic), WordPress Automation, Google APIs
- **Soft Skills**: Leadership, Teamwork, Event Management, Public Speaking, Time Management

EXPERIENCE

ThirdEye Data — Kolkata, India
Junior AI Engineer (Full Time) — *March 2025 – Present*

- **Multi-Agent System for Loyalty & Marketing**: Built a multi-agent AI system on **Snowflake Cortex**; created **Cortex Analysts** (NL→SQL) and integrated through a unified **Cortex Agent** using prompt orchestration and fine-tuning. Wrapped REST endpoint in **FastAPI** with conversational Threading for frontend use; delivered v1 in 2 weeks, now enhancing v2.
- **AI-Powered Karaoke System**: Designed a multilingual Karaoke engine using **Demucs** (vocal separation) & **Whisper** (lyric extraction). Added Hindi–Roman transliteration and synchronized lyric visualization for an automated, engaging music experience.

North Eastern Space Application Centre (ISRO) — Shillong, Meghalaya
Research Intern — *Aug 2024 – Sept 2024*

- **Operation Earthquake**: Analyzed ionospheric/solar parameters (TEC, Hmf2, foF2, Dst) to identify earthquake precursors in NE India using LSTM Autoencoders.

PROJECTS

- **Operation Earthquake — Seismic Precursors (NESAC, ISRO)**: Developed a pipeline analyzing 2018–2024 ionospheric/solar data (TEC, Hmf2, foF2, Dst) to detect pre-seismic anomalies via LSTM Autoencoder. **Tech:** Python, Pandas, TensorFlow.
- **Geeta GPT — AI Companion with RAG & Gemini**: Built a **RAG-based spiritual chatbot** using ChromaDB + Sentence Transformers for semantic retrieval and Google Gemini API for Krishna-inspired responses. Deployed via Streamlit with verse citations for contextual, authentic guidance.

ACHIEVEMENTS & CERTIFICATIONS

- Finalist — Cognizant East Technoverse Hackathon (Jul 2024)
- AWS Future AI Engineer Nanodegree — Udacity (Sponsored by AWS)
- Certified — AWS Educate Machine Learning Foundations

VOLUNTEER EXPERIENCE

Chairperson & Founding Member — IEEE BPPIMT Student Branch — Kolkata, India
Organized technical events, workshops, and sessions fostering student engagement. Feb 2023 – Mar 2024

Coordinator — Techstorm 2.24 — Kolkata, India
Led and volunteered in CODE-BEE 2023–24 coding contests during annual Techfest. Mar 2024