

Supriya Maji

☎ 9875481379 — ✉ supriyamaji76@gmail.com — 🔗 linkedin.com/in/supriyo-maji — 🐙 github.com/supriyamaji76

Education

Indian Institute of Technology, Patna <i>Master of Technology in Artificial Intelligence (CGPA: 7.89)</i>	Jul 2023 – June 2025
Heritage Institute of Technology, Kolkata <i>Bachelor of Technology in Electronics & Communication Engineering (CGPA: 8.35)</i>	Jun 2017 – Aug 2021
Shyampur High School, Shyampur <i>Higher Secondary (12th), West Bengal Council of Higher Secondary Education (Percentage: 91.8%)</i>	Jan 2014 – Mar 2015
Gurepole High School, Gurepole <i>Secondary (10th), West Bengal Board of Secondary Education (Percentage: 80.0%)</i>	Jan 2012 – Feb 2013

Technical Skills

Languages and Scripting: C/C++, Python, SQL, JavaScript
Web Skills: HTML, CSS, Node.js, React.js
Libraries/Frameworks: Pandas, NumPy, PyTorch, scikit-learn, XGBoost, OpenCV, Transformers
Database: MySQL, SQLite, PostgreSQL
Data Visualization: Matplotlib, Excel
Tools & OS: Git, GitHub, Jupyter Notebook, Google Colab, Overleaf, MATLAB, Linux, Windows, macOS
CI/CD & Config Management: Git, GitLab, GitHub
Key Courses: Data Structures and Algorithms, DBMS, Artificial Intelligence, Machine Learning, Deep Learning, NLP and Statistics

Experience

Cerebry <i>AI-Software Developer</i>	2021 - 2023 <i>Faridabad, Haryana</i>
<ul style="list-style-type: none">Engineered an AI-driven adaptive learning platform, integrating NLP-based dynamic question generation, syllabus management, and predictive analytics, improving personalized student learning outcomes by 35%.Designed and deployed scalable REST APIs using Django, enhancing adaptive learning workflows, real-time student progress tracking, and teacher management modules, reducing response latency by 40%.Optimized PostgreSQL database, implementing indexing and query optimization strategies, improving data retrieval speed by 50% and ensuring seamless platform scalability.Developed and fine-tuned AI models leveraging OpenAI APIs, automating prompt and question generation, cutting manual effort by 50% and enhancing content diversity.Implemented caching mechanisms and database query optimizations, reducing API response times by 45% and improving platform responsiveness under high traffic loads.Collaborated closely with frontend developers to ensure seamless API integration, conducted rigorous code reviews and contributed to extensive technical documentation, improving development efficiency by 25%.	

Projects

Therapist and Child Detection and Tracking <ul style="list-style-type: none">Designed a system using ML and Computer Vision to track children and therapists, achieving 95% accuracy in behavior analysis.Optimized person detection in long-duration videos (over 5 hours), reducing processing time by 30%.Ensured 90% tracking consistency by handling re-identification and managing unique IDs post-occlusion.Tech Stack: YOLOv8, Python, OpenCV, Deep Learning, Video Processing, Object Detection, and Tracking.
Dual-Branch Network for Cattle Image Quality Assessment <ul style="list-style-type: none">Streamlined a Dual-Branch Network to evaluate the quality of cattle images using advanced deep learning architectures, ensuring accurate quality assessment for diverse datasets and conditions.Enhanced image feature extraction and quality scoring using a refined multi-scale vision model.Implemented Local Implicit Quantized Embedding (LIQE) to address diverse backgrounds and variations.Tech Stack: Python, Swin Transformers, LIQE, Deep Learning, and Image Processing.

Accomplishments

- Received **Employee of The Month** 9 times.
- Achieved recognition as the youngest **Team Lead**, demonstrating exceptional leadership and technical expertise at an early stage in my career.
- Achieved a commendable **percentile of 96.51** in **GATE (CS/IT)** in 2023.
- Solved **300+** DSA problems on **LeetCode** and **500+** on **GeeksforGeeks**.