

Mayura Patkar

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Education

Manipal Institute of Technology, Manipal. | Expected Graduation: 2026

Master of Computer Applications - CGPA: 7.68

Mangaluru University, Karnataka. | Graduation: 2024

Bachelors of Computer Applications - CGPA: 8.7

Technical Skills

- **Programming Languages:** Python (Advanced), C/C++, JavaScript, SQL.
- **Data Science & Machine Learning:** Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, Hugging Face Transformers.
- **Frameworks & Databases:** Node.js/Express, MongoDB.
- **Developer Tools & Platforms:** Jupyter, Git/GitHub, VS Code, Figma.

Projects

T-CLM2 | 2024

- **Custom Transformer-based Language Model:** Engineered a 275M-parameter decoder-only Transformer from scratch for text generation.
- **Technologies Used:** Python, PyTorch, Transformer (Decoder), Byte-Pair Encoding (BPE).
- **Outcome:** Successfully exported the model to the Hugging Face hub with Safetensors integration, making it accessible for community use.

Omniera – AI-Powered Chat Application (Team Project) | 2024

- Built an **AI-powered chat application** with a **Finetuned custom Transformer model**.
- Architected a full-stack application (Node.js/Express, MongoDB, EJS, Python) and collaborated on backend development and AI model design in a team.

Shresht Systems – Company Management Software (Team Project) | 2025

- **Description:** Developed a comprehensive desktop-based management system for Shresht Systems, streamlining inventory, billing, and customer workflows.
- **Technologies Used:** Electron, JavaScript, and MongoDB, employing a secure local-first architecture.
- **Outcome:** Delivered a fast, user-friendly UI with offline capabilities and seamless data synchronization, resulting in over 80% reduction in paperwork and manual operations.

Activities & Certificates

- Runner-up, Medha -23 National Level Technical Fest Competitive Programming Competition | 2023
- Microsoft Professional Python Developer. (Microsoft) | 2025
- Mathematics for Machine Learning. ([DeepLearning.AI](#)) | 2025
- Active contributor on **GitHub and Research** with AI and software projects

Additional

Language Skills: English, Kannada, Hindi.

Interests/Hobbies: Books, Games, Music.