

CHANDRIL MALLICK

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PROFESSIONAL SUMMARY

Full-stack developer and AI enthusiast with a strong foundation in building scalable ML pipelines and web applications. Proven experience in developing RAG-based chatbots, Computer Vision systems, and deploying models using FastAPI and Docker. Passionate about bridging the gap between research and production engineering in HealthTech and Automation domains.

EDUCATION

B.Tech in Computer Science & Engineering

2023 – 2027

Brainware University, Kolkata

- **Key Coursework:** Data Structures & Algorithms, Database Management, Artificial Intelligence, Operating Systems.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), Java, Dart, SQL, C++
- **AI/ML Frameworks:** PyTorch, TensorFlow, Scikit-learn, Hugging Face Transformers, OpenCV, LangChain , RAG
- **Backend Development:** FastAPI, Node.js, Express, RESTful APIs
- **Frontend Mobile:** React.js, Tailwind CSS, Flutter
- **DevOps Tools:** Docker, Git/GitHub, Linux (Bash), Firebase, Supabase, SQLite, MySQL

EXPERIENCE

AI Intern — Samsung Innovation Campus

2025

- Engineered NLP pipelines for text classification tasks, improving model accuracy by 15% through advanced preprocessing.
- Deployed machine learning models as scalable REST APIs using FastAPI, enabling real-time inference for client applications.
- Collaborated on dataset curation and annotation strategies, ensuring high-quality input for supervised learning models.

KEY PROJECTS

Dabba AI Ecosystem – Campus Automation Suite

🌐 Link

- Developed a **Retrieval-Augmented Generation (RAG)** chatbot using FAISS and OpenAI embeddings to answer syllabus-related queries with 90% relevance.
- Implemented an OCR pipeline (Tesseract/PaddleOCR) to digitize handwritten forms, reducing manual data entry time by 40%.
- Built a modular backend architecture using FastAPI to handle concurrent user requests efficiently.

SmartHealth Loo – Non-Invasive Health Monitor

💻 Code 🌐 Demo

- Designed a Computer Vision system using CNNs (ResNet architecture) to screen for early signs of UTI and kidney risks via urinalysis.
- Optimized model inference for edge devices, achieving sub-2-second latency on a Raspberry Pi 4.
- Integrated IoT sensors for real-time data logging to a secure cloud dashboard.

Grammar & Spell Checker Chrome Extension

🌐 Link

- Developed a Chrome extension powered by NLP models to perform grammar correction and spell checking in real-time.
- Implemented a lightweight FastAPI backend for text processing and low-latency inference.
- Created a responsive browser popup UI for seamless user workflow.

Emotion Aware Chat Application

🌐 Link

- Integrated a fine-tuned RoBERTa model to detect sentiment in real-time during chat sessions.
- Developed a reactive frontend that adapts UI themes dynamically based on emotional context.

ACHIEVEMENTS & CERTIFICATIONS

- **Top 25 Finalist:** HP Dreams Unlocked (Tech Track) – Recognized for innovative approach in [Project Name].
- **Top 1000 Innovator:** National AI Competition – Selected from over 10,000 participants nationwide. .