

SAYAK MANDAL

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EDUCATION

M.Tech in IT (Data Science) Maulana Abul Kalam Azad University of Technology (MAKAUT)	Sep 2024 – Present 9.0 CGPA
B.Tech in CSE (AI and ML) The Neotia University	Aug 2020 – Jun 2024 8.97 CGPA
Higher Secondary W.B.C.H.S.E	Jun 2018 – May 2020 91.6%

SKILLS

Programming	Python, Core Java, SQL
Technical Skills	Machine Learning, Data Science, Gen AI, Power BI, Computer Vision, NLP
Frameworks	Scikit-learn, Pandas, NumPy, TensorFlow, LangChain, PyTorch, NLTK, OpenCV
Other Tools	Oracle, MongoDB, Streamlit, Tableau, Django, Flask, AutomationEdge, Agentic AI
Languages	English, Hindi, Bengali

EXPERIENCE

Automation Intern AutomationEdge Technologies Pvt. Ltd., Pune, Maharashtra	Jul 2024 – Aug 2024
- Streamlined critical business operations by designing and deploying 5+ RPA bots, significantly reducing manual effort. - Produced 10+ detailed process flow diagrams and comprehensive requirement documents to accelerate RPA delivery.	
Artificial Intelligence Intern Data-Core Systems Inc, Kolkata, West Bengal	Jan 2024 – Jun 2024
- Orchestrated 3 real-time AI projects leveraging Hugging Face, GenAI, and LLMs; applied OpenCV and YOLOv8 for advanced image analysis. - Evaluated and recommended top 5 AI tools after assessing 20+ applications, improving team efficiency by 40%.	
AI/ML Intern AILABS, Kolkata, West Bengal	Jun 2023 – Aug 2023
- Investigated 5+ machine learning algorithms using Python libraries to solve practical classification problems. - Extracted insights from web data using a custom BeautifulSoup scraper applied across 5+ sources.	

PROJECTS

Automatic Number Plate Detection and Recognition [\[GitHub Link\]](#) Apr 2024 – May 2024

- Engineered a real-time license plate detection system with YOLOv8 achieving 95%+ accuracy.
- Integrated OCR for seamless text extraction and CSV data logging for analysis.

DocuMind: AI-Powered Question Answering (RAG) [\[GitHub Link\]](#) Feb 2024 – Mar 2024

- Designed a scalable Retrieval-Augmented Generation system combining LLMs and vector databases to handle 20+ documents.
- Optimized document ingestion, preprocessing, and answer generation pipeline; deployed with Streamlit for usability.

Personalized Greetings Card Generator [\[GitHub Link\]](#) Jan 2024 – Feb 2024

- Applied pre-trained text-to-image models (Hugging Face) to create 100+ unique backgrounds tailored to employee preferences.
- Enhanced image generation workflows using Gradio, linking image paths and event data from Excel inputs.

Age and Gender Classification (CNN) [\[GitHub Link\]](#) Mar 2023 – May 2023

- Developed a CNN-based system for real-time age and gender classification with 85% accuracy.
- Boosted model performance via robust image augmentation on 10k+ samples.

CERTIFICATIONS

- **Generative AI:** Oracle Cloud Infrastructure 2024 Certified
- **Deep Neural Networks (PyTorch):** Coursera
- **Machine Learning:** Perfect eLearning
- **Deep Learning:** Simplilearn
- **AI 30-Day Masterclass:** Pantech Solutions