

ASHOK HELAN BRIJESH

Portfolio 

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Applied AI / ML Engineer (Fresher) with strong hands-on experience in building, deploying, and scaling deep learning models using TensorFlow, Flask, Docker, and Kubernetes. Experienced in computer vision, NLP, and conversational AI systems, with real-world internship exposure to automation (KNIME) and enterprise systems (SAP ABAP). Passionate about production-ready AI solutions.

EDUCATION

BE CSE | RAJIV GANDHI COLLEGE OF ENGINEERING

CGPA: 8.4

Graduated: 2025

PROJECTS

Emotion Detection System (CNN, RNN, TensorFlow, Docker, Kubernetes)

- Built and compared CNN and RNN architectures for emotion detection on a custom dataset, achieving 91% accuracy.
- Containerized the trained CNN model using Docker and deployed it on a Kubernetes cluster for scalable, production-ready inference.
- Exposed REST APIs using Flask and implemented basic health-check endpoints.

Face Recognition Attendance System (CNN, Flask, MySQL)

- Developed an automated attendance system using CNN-based face recognition.
- Achieved recognition of 5 individuals within 10 seconds, reducing manual attendance effort by 60%.

Suicide Prevention Chatbot (LSTM, DialogGPT, Flask, React)

- Fine-tuned DialogGPT for empathetic conversational responses on a curated dataset using Google Colab GPU.
- Built a real-time chatbot with Flask backend and React frontend, integrating 11Labs TTS and Rhubarb Lip Sync for a 3D avatar experience.

INTERNSHIPS

AI Intern | AICTE Innovative Intern

August 2024 – November 2024

- Developed a **Face Recognition-Based Attendance System** using TensorFlow, CNN, Keras, Flask, and MySQL.
- Achieved **87% accuracy**, automating attendance tracking and reducing manual effort by **60%**.
- Implemented efficient inference pipelines enabling recognition of **5 individuals within 10 seconds**.
- Collaborated with team members to deliver a user-centric and production-oriented solution.

Audit Automation & Analytics Intern | Aamin Data Solutions

May 2025 – November 2025

- Designed and maintained **10+ KNIME workflows** to detect data outliers and anomalies.
- Built reusable **data integrity validation components** to ensure audit data quality.
- Developed KNIME-based interfaces to streamline audit navigation and reporting.
- Automated audit insights and reports, significantly reducing manual workload.

SAP ABAP Intern | Ford Motor Company

June 2024 – August 2024

- Worked on **SAP ERP data migration** using ABAP OOP and standard tools (BDC, LSMW, LTMC, BAPI).
 - Contributed to **RICEF development** and improved migration efficiency by **20%** through optimized ABAP programs.
 - Ensured high data accuracy and collaborated with cross-functional enterprise teams.
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SKILLS

- **Core AI / ML Skills:** Python, TensorFlow, Keras, CNN, RNN, LSTM, Seq2Seq, Transformers (DialogGPT)
- **Applied Machine Learning & Data:** Scikit-learn, NumPy, Pandas, Feature Engineering, Model Training, Evaluation Metrics
- **Deployment & Backend:** Flask, REST APIs, Docker, Kubernetes, Git, GitHub
- **Databases:** MySQL, MongoDB
- **Automation & Enterprise Exposure:** KNIME (Level 3), Workflow Automation, Data Cleaning, SAP ABAP (ABAP, BDC, LSMW, BAPI, RICEF)
- **Tools & Visualization:** Google Colab, Hugging Face, Postman, VS Code, Matplotlib, Seaborn