

ASHOK HELAN BRIJESH

AI/ML ENGINEER | KNIME L3

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Deep Learning & AI Engineer skilled in Python, TensorFlow, and KNIME Level 3 automation. Experienced in building and deploying end-to-end AI solutions, including face recognition, emotion analysis, and conversational AI systems. Strong in ETL workflows, data validation, and workflow automation, with a focus on scalable, reliable, and production-ready AI applications.

EDUCATION

BE CSE | RAJIV GANDHI COLLEGE OF ENGINEERING

CGPA: 8.4

Graduated: 2025

INTERNSHIPS & PROJECTS

AUDIT AUTOMATION & ANALYTICS INTERN | AAMIN DATA SOLUTIONS

MAY 2025 – NOVEMBER 2025

- Designed and maintained 10+ KNIME workflows to identify data outliers.
- Built data integrity check components to validate datasets before audits.
- Developed intuitive KNIME-based GUIs to streamline audit navigation.
- Explored AI techniques to enhance exception detection.
- Generated audit insights and automated reports to reduce manual workload.

AI INTERN | AICTE INNOVATIVE INTERN

AUGUST 2024 – NOVEMBER 2024

- Developed a Face Recognition-Based Attendance System using Flask, TensorFlow, CNN, Keras, and MySQL.
- Achieved 87% accuracy, automating attendance tracking and reducing manual effort by 60%.
- Enabled recognition of 5 individuals within 10 seconds, showcasing expertise in deep learning and problem-solving.
- Collaborated with team members to ensure the efficient delivery of the solution with a focus on user-centric design.

SAP ABAP INTERN | FORD MOTOR COMPANY

JUNE 2024 – AUGUST 2024

- Worked on SAP ERP for the automotive sector, focusing on data migration and system optimization.
- Used ABAP OOP and data conversion tools (BDC, LSMW, LTMC, BAPI) to improve data accuracy.
- Contributed to RICEF development and improved data migration efficiency by 20% through optimized ABAP programming.
- Ensured 100% data accuracy during migration, reducing transactional errors.
- Collaborated with cross-functional teams to deliver stable and reliable SAP solutions.

PROJECTS

- **Emotion Predictor Models (RNN & CNN)** – Implemented and compared RNN and CNN based architectures for emotion detection on a custom text dataset, achieving 91% accuracy. Packaged the CNN model using Docker and deployed it to a Kubernetes cluster for scalable, production-ready inference.
- **Face Recognition Attendance System (CNN + MySQL)** – Automated attendance tracking with 5-person recognition in under 10 seconds.
- **Suicide Prevention Chatbot (LSTM + DialoGPT + React + 11labs)** – Fine-tuned a DialoGPT model on Google Colab GPU and built a real-time 3D avatar chatbot using Flask, React, 11Labs TTS, and Rhubarb Lip Sync.

SKILLS

- **Programming:** Python, Java, C
- **Deep Learning:** CNN, RNN, LSTM, Seq2Seq, Transformers (DialoGPT), TensorFlow, Keras
- **Machine Learning:** Scikit-learn, Model Training, Feature Engineering, Evaluation Metrics
- **Data:** MySQL, MongoDB, NumPy, Pandas
- **Deployment:** Docker, Kubernetes, Flask, REST APIs, Git Version Control
- **Automation & Analytics:** KNIME (Level 3), ACL, Data Cleaning, Workflow Automation
- **Platforms & Tools:** Git, GitHub, Google Colab, HuggingFace, Lovable, KNIME Hub, Postman, VS Code
- **Visualization:** Matplotlib, Seaborn
- **SAP ABAP:** ABAP OOP, BDC, LSMW, LTMC, BAPI, RICEF