

# ASHOK HELAN BRIJESH

## Portfolio

AI / Machine Learning Engineer

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Entry-level AI/ML engineer with hands-on experience building and deploying deep learning models for computer vision and NLP. Proficient in Python, TensorFlow, and Scikit-learn, with experience across data preprocessing, model training, evaluation, and REST API deployment.

## SKILLS

### Core AI / Machine Learning

- Python, TensorFlow, Keras, Scikit-learn
- CNN, RNN, LSTM, Transformers
- Computer Vision, Natural Language Processing

### Model Development & Deployment

- Data Preprocessing, Feature Engineering, Model Training, Evaluation
- Flask, REST APIs, Docker, Kubernetes

### Data & Engineering Tools

- NumPy, Pandas
- MySQL, MongoDB
- Git, GitHub

### Additional Experience

- KNIME (Level 3 Certified)
- SAP ABAP (Internship Exposure)

## PROJECTS

### Emotion Detection System | CNN, RNN, TensorFlow, Docker, Kubernetes

- Designed and trained CNN and RNN models for multi-class emotion detection across the end-to-end ML pipeline.
- Achieved 91% accuracy through architecture tuning and training optimization.
- Compared CNN and RNN architectures to analyse learning behaviour, convergence, and inference efficiency.
- Deployed the model using Docker, Kubernetes, and Flask REST APIs with health monitoring.

### Face Recognition Attendance System | CNN, Flask, MySQL

- Built a CNN-based face recognition system for automated attendance tracking.
- Integrated the model with a Flask API and MySQL database for persistent, near real-time attendance storage.
- Reduced manual effort by 60% approximately through automated multi-user face recognition.

### Suicide Prevention Chatbot | LSTM, DialoGPT, Flask, React

- Fine-tuned a transformer-based conversational model (DialoGPT) for empathetic response generation.
- Implemented NLP preprocessing and sequence modelling for chatbot inference.
- Built and deployed the chatbot using a Flask API backend and React frontend.

## INTERNSHIPS

### AI Intern | IPCS Global Solutions Pvt. Ltd.

#### November 2025 – Present

- Completed hands-on, industry-aligned training in Data Science, Machine Learning, and Deep Learning using real-world datasets.
- Built and evaluated ML models (Regression, Decision Trees, Random Forest, SVM, KNN) and DL models (CNN, RNN, LSTM) using TensorFlow/Keras.
- Performed data preprocessing, feature engineering, and exploratory analysis using Python, NumPy, Pandas, and SQL.

### AI Intern | AICTE Innovative Intern

#### August 2024 – November 2024

- Engineered an end-to-end face recognition attendance system using TensorFlow, Keras, and Flask.
- Trained and evaluated CNN models achieving 87% accuracy, improving reliability of automated attendance.
- Automated attendance workflows, reducing manual effort by 60% approximately.
- Optimized inference pipelines to enable near real-time multi-person recognition.

### Audit Automation & Analytics Intern | Aamin Data Solutions

#### May 2025 – October 2025

- Designed and deployed 10+ KNIME workflows to automate audit checks, anomaly detection, and data validation tasks.
- Streamlined audit analysis by automating repetitive processes, significantly reducing manual review time.
- Built a prompt-driven analytical chatbot using an LLM tool to support data analysis and audit decision-making.

### SAP ABAP Intern | Ford Motor Company

#### June 2024 – August 2024

- Supported large-scale SAP ERP data migration using ABAP OOP, BDC, LSMW, LTMC, and BAPI tools.
- Optimized ABAP programs and RICEF developments, improving migration efficiency by 20%.
- Ensured high data accuracy and consistency across migrated datasets.

## EDUCATION

### Bachelor of Engineering (B.E.) – Computer Science and Engineering

Rajiv Gandhi College of Engineering

CGPA: 8.4 | Graduation Year: 2025