



# Aesha Dilipbhai Gadhiya

MSc Artificial Intelligence Student

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## PROFILE

Master's student in Artificial Intelligence with a strong foundation in AI, including machine learning and deep learning, supported by practical project experience. Proficient in Python, Git, and data visualization tools such as Power BI, Tableau, and Matplotlib. Skilled in feature engineering, model evaluation, and building scalable solutions. Passionate about applying AI to real-world challenges in areas like energy, automation, and industrial systems.

## PROFESSIONAL EXPERIENCE

04.2023 – 04.2024

Bhavnagar, India

**Midnight Digital Pvt. Ltd.**

Frontend Developer

- Optimized SQL queries and improved server response time by 25%, enhancing backend performance for a production-grade web app.
- Collaborated with the development team to implement new features and maintain system performance

01.2023 – 03.2023

Bhavnagar, India

**App Matters Technologies**

Frontend Development Intern

- Directed and optimized dynamic web applications using PHP, integrating seamless database interactions with MySQL.
- Assisted in designing and implementing user-friendly interfaces while ensuring smooth database connectivity.

## EDUCATION

2024 – Present

Amberg, Germany

**Master of Science, Artificial Intelligence for Industrial Applications**

Ostbayerische Technische Hochschule Amberg-Weiden

**Key Subjects:** Machine Learning, Natural Language Processing, Deep Learning, Modern Databases and NoSQL, Software Project, Industry 4.0

2020 – 2024

Bhavnagar, India

**Bachelor of Engineering, Computer Engineering**

Gujarat Technological University

**Key Subjects:** Database Management System, Object Oriented Programming, Cloud Computing, Big Data Analytics

## SKILLS

### Programming

Python, JavaScript, PHP

### AI/ML Libraries

Pandas, NumPy, Scikit-learn, SciPy, PyTorch

### Databases

MongoDB, MySQL

### API & Integration

RESTful APIs, JSON, Postman

### Operating System

Linux(Ubuntu), Windows

### Tools & Workflow

GitHub, GitLab, OpenAI GPT Models

### UI/UX Design

Figma

### Analytics & Productivity Tools

Tableau, Power BI, MS Word, Excel, PowerPoint

## LANGUAGES

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- English
- German
- Hindi
- Gujarati

## PROJECTS

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### Wind Turbine Predictive Maintenance

- Built predictive maintenance models for wind turbines using Python, Scikit-learn, and Matplotlib.
- Applied data wrangling and time-series analysis on real-time sensor data to forecast failures, utilizing both supervised and unsupervised machine learning models to improve fault detection and early failure prediction.

### Smart Home Data Storage System ([GitLab Link](#))

- Constructed and maintained a robust, secure data storage system for smart homes, integrating multi-user support and efficient sensor data management, as a part of my master study project.
- Led the implementation of MongoDB for real-time data storage and Flask APIs to enable smooth communication between the frontend and backend, ensuring seamless system performance and security for enhanced user experience.

### Multimodal Emotion Recognition ([GitHub Link](#))

- Development of a real-time demo for emotion recognition using FER+SER with webcam and microphone, employing PyTorch, OpenCV, and Transformers.
- Training was conducted using ResNet-50 (FER, 6 emotions) and a finely tuned WavLM base model(SER) with speaker-separated evaluation.
- Class imbalances were addressed using a weighted loss function and standardized audio (48 kHz → normalization → 16 kHz). Additionally, an emotion game for two players was implemented. Send feedback

### DreamFollow ([GitHub Link](#))

- Built a full-stack property management platform using MongoDB, Express.js, React, and Node.js, featuring secure authentication (email/password, Google OAuth) and user profile management.
- Increased form submission success rate by 0% after improving UI flow with React and Tailwind CSS.
- Implemented dynamic CRUD operations for listings, including image uploads, discount pricing, and real-time editing.