

# Ashish Jadhav

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## SKILLS

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**Programming Languages :** Python , HTML, SQL (basics), Pyspark.

**Frameworks (DL, ML, CV, NLP ) :** Tensorflow, Pytorch, Scikit-learn, openCV, opensmile, Rasa.

**Libraries (data, visualization, web) :** Numpy, Pandas, Requests, Matplotlib, Seaborn , Jekyll, Flask.

**OS, Shell, version control:** Linux, bash, Zsh , git cli.

**Cloud and MLops :** AWS, Github, Heroku, MLFlow.

**Soft skills :** Teamwork, Problem solving, creativity, Resilience, Critical thinking, Communication, consultative approach, research.

## EXPERIENCE

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### Working Student - Machine Learning Engineer

April 2024 - Present

[Compolytics GmbH](#) | Barleben, Germany

- Collected and annotated various types of images needed as per project requirement.
- Cleaned and preprocessed raw images using opencv.
- Extracted features such as histogram features, entropy, cross correlation.
- Feature Applied dimensionality reduction techniques such as PCA , LDA achieve separable image classes.

### Lead Engineer

July 2019 - Sept. 2022

[Tata Power Company Ltd.](#) | Mumbai, India

- Performed text classification on customer emails and categorized them into specific complaint categories completely eliminating manual intervention.
- Performed data analysis on energy consumption data to predicting energy consumption helping in load scheduling.
- Diagnosed and resolved issues with high and low voltage switchgear demonstrating 100 % power reliability in Mumbai subdivision.

## EDUCATION

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### Electrical Engineering and Information Technology (M.Sc.)

Oct 2022 - April 2025

Otto-von-Guericke University, **Germany**

- Deep Learning and Speech Recognition

## Electrical Engineering (B. Tech.)

July 2015 - May 2019

Sardar Patel College of Engineering, **India**

- Engineering mathematics and statistics

## PROJECTS

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### Alzheimer's Disease classification using spontaneous speech

[View in GitHub](#)

- Built a machine learning model for the early detection and classification of Alzheimer's Disease (AD) using spontaneous speech.

### Mystic Forest Escape Room Chatbot

[View in GitHub](#)

- Designed a chatbot to guide users through a thrilling and mysterious journey within the Mystic Forest. It is deployed on TU Berlin website.

### Image Classification using Neural Networks

[View in GitHub](#)

- Created a Fully connected Neural network architecture for accurate digit recognition and comparison.
- Optimized Convolutional Neural Network (CNN) with three convolution layers reaching accuracy of 99.05 %.
- Deployed the model on a website using AWS sagemaker platform.

## SCIENTIFIC WRITINGS

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- **Jadhav A. S. and Sinha Y. (2023). Pathological speech processing - a systematic review: datasets, acoustic features and applications.** - Systematic review report as part of coursework NTPS  
[View Paper](#)
- **Jadhav A. S. Alzheimer's dementia classification using spontaneous speech.** Unpublished Manuscript. - Technical report as part of coursework Digital Communication System.
- **Jadhav A. S. (2023) Machine Learning in IIoT communications .** - Technical report as part of coursework Digital Communication System.  
[View Paper](#)

## CERTIFICATIONS

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NVIDIA Fundamentals of Deep Learning

[View credentials](#)

Stanford Deep Learning Specialization

[Audit-Version](#)

Stanford Machine Learning Specialization

[Audit-Version](#)

