

Aishwarya Avhad

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CAREER OBJECTIVE

Dedicated Assistant Professor with 1.5 years of experience in Computer Engineering and Artificial Intelligence and Machine Learning Department. I am skilled in delivering engaging lectures, conducting innovative research, and mentoring students to achieve academic excellence by integrating modern teaching methodologies, and fostering a collaborative learning environment. Demonstrates a strong commitment to academic growth, scholarly contributions, and departmental development. Enthusiastic about leveraging expertise to inspire the next generation of professionals.

WORK EXPERIENCE

Watumull Institute of Engineering & Technology

Ulhasnagar, Maharashtra

(02 January 2025 – Present)

- Taught undergraduate courses, including Python Programming and Social Media Analytics.
- Conducted practical lab sessions for the above subjects, ensuring hands-on learning and application of theoretical concepts.
- Actively participated in institutional development by serving on various committees:
 - I. Training and Placement Committee: Assisted in organizing placement drives and preparing students for interviews.
 - II. Feedback Committee: Gathered, analyzed, and implemented feedback to improve academic and administrative processes.
- Guided Students for their Projects in various disciplines like Machine Learning, Frontend and Backend development, etc.
- Worked for college level committees like TimeTable coordinator, Social Media and Website coordinator, Placement coordinator, etc.

GH Raisoni College of Engineering and Management

Pune, Maharashtra

(16 November 2023 – 20 December 2024)

- Taught undergraduate courses, including Data Structures and Algorithms (DSA), Natural Language Processing (NLP), Database Management Systems (DBMS), and Python Programming.
- Conducted practical lab sessions for the above subjects, ensuring hands-on learning and application of theoretical concepts.
- Actively participated in institutional development by serving on various committees:
 - I. Training and Placement Committee: Assisted in organizing placement drives and preparing students for interviews.
 - II. Feedback Committee: Gathered, analyzed, and implemented feedback to improve academic and administrative processes.
 - III. Conducted workshops and seminars to enhance student and faculty knowledge on emerging technologies and best practices.
- Fostered a collaborative learning environment through Internship mentor, academic counseling, and innovative teaching methodologies.
- Guided Students for their Projects in various disciplines like Machine Learning, Frontend and Backend development, etc.

TECHNICAL COMPETENCY

- Programming Language: Java, Python, C
- Subjects: Data Structures and Algorithms, Natural Language Processing, Java (Full Stack), Python

PROJECTS

1. Generation of Airfoil using WcGAN:

- Implemented the Wasserstein GAN framework with a conditional setup to control the generation process based on predefined airfoil characteristics (e.g., lift coefficient, drag coefficient, thickness, camber).
- Used a dataset of airfoil shapes and their corresponding aerodynamic performance metrics for training the WCGAN model.
- Improved the stability of GAN training by incorporating Wasserstein distance, gradient penalty, and conditional inputs.
- Tools and Technologies: Python, TensorFlow**

2. Sentiment Analysis – Amazon Customer Reviews:

- Developed a machine learning model to perform sentiment analysis on Amazon product reviews, classifying customer feedback as positive, negative, or neutral.
- Collected and preprocessed a large dataset of Amazon reviews, including data cleaning, tokenization, and vectorization of text using techniques such as TF-IDF and word embeddings (Word2Vec, Glove).
- Visualized sentiment distribution and trends over time using data visualization libraries like Matplotlib and Seaborn.
- Tools and Technologies: Python, Scikit-learn, NLTK, SpaCy, Matplotlib**

PUBLICATIONS

- A paper titled “**Airfoil generation using WcGAN approach**” is published in 8th International Conference on Computing in Engineering and Technology (ICCET 2023) at NIT Patna 2023.
- A paper titled “**Generation and Optimization of Airfoil using GAN and its associated techniques**” is presented at ICACME 2022 conference.

EDUCATION

Education Level	Name of Institute	Board of Education	Marks Obtained
M.Tech. Computer Engineering (Dec. 2021 – Aug. 2023)	College of Engineering, Pune	Savitribai Phule Pune University	6.75/10
B.E. Mech. Engineering (Aug. 2014 – June 2018)	N.Y.S.S. Datta Meghe College of Engineering, Navi Mumbai	Mumbai University	6.38/10
H.S.C. (2014)	Birla College of Arts, Commerce and Science	Maharashtra State Board of Secondary and Higher Secondary Education	71%
S.S.C. (2012)	Model English High School	Maharashtra State Board	89.09%

PERSONAL INFORMATION

Name: Aishwarya Aba Avhad

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Contact No: 9867271507

Date of Birth: 01/04/1997

Acknowledgement

I hereby acknowledge that the information provided above is true.