# MADHUSHREE WARKE

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## PROFESSIONAL SUMMARY

I'm a 3rd-Year Computer Engineering Student and aspiring AI/ML Engineer with a strong focus on Machine Learning and Data Science. Also had some experience in Data Analytics. Possesses a solid academic command of DSA, OOPs, and DBMS, applying this foundation in practical model development (Python/TensorFlow). Complements technical skills with proven leadership and organizational ability gained as an Event Manager and Group Captain Currently Looking for Internship to Explore and Implement my skill in Real World.

## TECHNICAL SKILLS

***Programming Languages***: Python, C++, Java, JavaScript
***Frameworks & Libraries:*** matplotlib, pandas, numpy, keras, tensorflow.
***Web Development:*** HTML, CSS
***Databases***: SQL, MySQL, MongoDB
***Tools & Platforms:*** GitHub, MS Office, Tableau, Power BI, Figma, Canva, Excel, Power Point.
***Soft Skills:*** Communication, Management, Problem Solving, Leadership

## WORK EXPERIENCE

**Internship - *Indian Meteorological Department (IMD*).** *October 2025–November 2025*
*Data Analyst Intern (Data Visualization, Reasearch and Development).*

- Improved a Python program that processes Excel datasets and generates visual graphical data for analysis.
- Automated data extraction, cleaning, and visualization tasks, improving efficiency for reporting.
- Utilized Python (pandas, matplotlib, seaborn) to create interactive and insightful charts.

## PROJECTS

***Object Detection Using Tensorflow***

- Enhanced a single-digit Object Detection system using a TensorFlow CNN model trained on the MNIST dataset.
- This involved implementing bounding box regression and classification heads to accurately identify the digit and its position.

***Vision Transformation***

- Constructed a Vision Transformer (ViT) model from scratch using TensorFlow/Keras for image classification on the CIFAR-10 dataset.
- The implementation included custom layers for patch extraction, positional encoding, and the core transformer architecture.

***Predict Mortality of Heart Failure Patients***

- Built and compared machine learning models (SVM and ANN) using clinical data to predict mortality in heart failure patients.
- The ANN model showed superior predictive power (accuracy and F1-score) for identifying high-risk individuals.

***Credit EDA***

- Conducted comprehensive Exploratory Data Analysis (EDA) on credit application datasets.
- This involved rigorous data cleaning, handling missing values (imputation with median/mode), feature engineering (binning age and credit amount), and correlation analysis to identify key risk factors influencing loan default.

## CERTIFICATES

- Artificial Intellegence using Python(Microsoft)
- Azure AI Fundamentals
- Data Science using Python (Microsoft)
- Azure DS Fundamentals
- Introduction to Agile Development & Scrum (IBM)
- Programming in Modern C++ (NPTEL)

## EDUCATION

Bachelor of Engineering in Computer Science (3rd Year). *(2023 – 2027)*
*Bharati Vidyapeeth's College of Engineering, Lavale, Pune*
Current SGPA: 7.91

Primary and High School
*SNBP School and Jr. College, Rahatani.* *(2010 – 2022)*
JEE score – 69.94%ile
CET score – 81.48%ile
12th Board Exam – 69.00%
10th Board Exam – 88.80%

## ACADEMIC ACTIVITIES

Event Management Coordinator, College Committee
Training Coordinator, College Committee

## LANGUAGE

English
German – Level A1 (Score - 77)

## PATENT

Quality Detector, Wireless Gas Leakage sensor and Triggers Message for Customer (Status -Published).
Application No. – 202421003824