






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. 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, Research 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 Intelligence 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 (2010 – 2022)
SNBP School and Jr. College, Rahatani.
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