

VAISHNAVI TAMBE

Data Scientist

MSc, Data Science & Big Data Analytics

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PROFESSIONAL SUMMARY

Accomplished Data Scientist with a passion for delivering valuable data through analytical functions and data retrieval methods with 2+ years of experience. While I'm independently motivated, I appreciate collective efforts and collaborate productively within group settings. I'm seeking an opportunity where I could leverage my skills.

WORK EXPERIENCE

Sanjivani College of Engineering, Kopergaon.
Data Scientist & Soft Skills-Aptitude Trainer

Kopergaon, Maharashtra
Sep 2025 - Present

- Delivered training sessions on aptitude, reasoning, verbal ability, and interview preparation
- Trained and mentored engineering students for campus placements
- Designed training modules, question banks, and assessment rubrics
- Conducted mock interviews, group discussions
- Managed classroom engagement and ensured interactive learning environments

Sanjivani Artificial Intelligence Technologies, Sanjivani COE Kopergaon.
Data Science Assistant

Kopergaon, Maharashtra
Feb 2024 – Aug 2025

- Designed and deployed predictive models using machine learning techniques, achieving 80% accuracy in key performance metrics.
- Orchestrated data preprocessing, feature engineering, and statistical analysis pipelines, enhancing machine learning model performance by 9% across key business performance metrics.
- Leveraged Python (Pandas, NumPy, Scikit-learn) and R to process and analyze 1M+ data records, enabling faster, data-driven business decisions.
- Delivered actionable insights from complex datasets, presenting to C-suite executives and driving operational efficiency improvements of 15% and customer satisfaction gains of 10%.
- Performed HR data collection and a variety of statistical analyses using Microsoft Excel, Tableau and Python.

Resilinc Software Solutions
Python Developer

Pune, Maharashtra
Dec 2021 – May 2022

- Coordinated 10+ cross-functional project tasks, ensuring 100% compliance with engineering standards and regulatory requirements.
- Bridged technical and business teams, clarifying requirements for 5+ portfolio management initiatives, leading to more accurate risk modeling and improved stakeholder alignment.

SKILLS

- Data Science	- Machine Learning	- Data Forecasting	- SQL & Database
- NLP/Advanced NLP	- Data Preprocessing	- Deep Learning	- Data Analysis
- Data Cleansing/Data Mining	- Statistical Analysis	- Python	- CNN, RNN

TRAININGS & INTERNSHIPS

Skillvertex

Data Science Intern

Remote
Nov 2022 – Dec 2022

- Created and evaluated the performance and the predictive power of a model trained and tested on data collected for housing prices in Boston.

PROJECTS

Detection of unauthorized access points using deep learning and temporal feature optimization

- Designed a deep learning model (ANN with dense layers, dropout, and softmax output) for binary classification of access points.
- Trained the model using optimized parameters and implemented checkpointing to save the best model.
- Evaluated the model using accuracy, precision, recall, and F1-score along with confusion matrix visualization.
- Achieved significant improvement in unauthorized AP detection performance after optimization and balancing..

Real time computer vision system for manufacturing count extraction and automated reporting

- Developed and deployed a real-time computer vision system that automated product counting on an assembly line, achieving 98%+ accuracy and reducing manual inspection time by 65%.
- Generated and trained custom models using OpenCV, YOLOv5, and TensorFlow for accurate detection and tracking of items in high-speed production environments.
- Designed and implemented bounding box filtering techniques to decrease false positives; achieved an accuracy improvement of 25% in object detection tasks, streamlining processes for both the analysis team and final reporting..

Uber Data Analysis

- Built a fare prediction model for the Uber ecosystem that improved price accuracy by 15–20% compared to baseline models, enhancing transparency in fare variability.
- Developed a Python-based preprocessing pipeline that analyzed 500K+ trip logs, accurately detecting dead kilometers and reducing non-revenue distance analysis time by 40%.
- Performed data cleaning, filtering out incomplete/canceled trips and removing vehicles from non-relevant regions using regex and string logic.
- Improved data quality and enabled location-based dead kilometer analysis, supporting more efficient routing and operational planning.

U.S. Coal Mine Production: Analysis and Prediction

- This project will predict the Production Rate on the basis of Year and State. Here we have also included a model which tells you how much labours we are going to need and how much hours they have to work for the entire year to produce the expected future coal production in the coming years.

Speech to Text Summarization

- Pioneered natural language processing pipelines to condense lengthy documents into concise paragraphs, slashing manual review time by 30% and boosting overall team efficiency using a newly implemented system.

EDUCATION

MSc Data Science and Big Data Analytics – MIT WPU, Pune (8.37 CGPA)	2020 - 2022
BSc Computer Science – K.J.Somaiya College, Kopergaon (67.57%)	2016 - 2019
