Jay Shahapurakar

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GitHub Portfolio

SUMMARY

Data Scientist skilled in analytical thinking, machine learning, deep learning, and end-to-end model development. Experienced in Python, data preprocessing, feature engineering, model evaluation, and deploying ML systems using Flask and Django. Strong collaboration and communication skills with hands-on experience using AWS, GCP, and Azure (Basics). Adept at building scalable ML pipelines and solving real-world problems with predictive modeling.

SKILLS

- Python
- SQL
- pandas
- NumPy
- scikit-learn
- TensorFlow
- Keras
- OpenCV
- spaCy
- SBERT
- Django
- Flask
- Git/GitHub
- Power BI
- AWS
- GCP
- Azure (Basics)
- Analytical Thinking
- Communication Skills
- Collaboration
- REST APIs
- Jupyter
- Google Colab

EXPERIENCE

AI Engineer 04/2025
GTechnoHubb Solutions Bengaluru, Karnataka
- Built and deployed production ML/DL models.
- Designed ML pipelines including preprocessing, training, evaluation.
- Implemented real-time inference using Flask.
- Collaborated with cross-functional teams to improve model accuracy.

Data Science Intern 12/2024 – 04/2025
NullClass Dharmapuri, Tamil Nadu
- Improved ML model accuracy from 56% to 6%.
- Contributed to data preparation, tuning, and validation.

Machine Learning Intern 08/2023 – 09/2023
Eysec Cyber Security Belgaum, Karnataka
- Improved ML accuracy from 80% to 87.58% through tuning.
- Performed EDA and feature extraction.

PROJECTS

AI ATS Resume Scanner
- SBERT-based semantic resume-JD matching.
- Resume parsing (spaCy, regex, pdfplumber).
- Weighted ATS scoring and automated PDF reports.
- Built full-stack system using Django.

Credit Card Default Prediction
- Developed an **XGBoost classifier** achieving **84% accuracy** on credit default prediction.
- Performed data cleaning, feature engineering, and evaluation using pandas & scikit-learn.
- Deployed the model using a **Flask API** for real-time predictions.
- Improved system responsiveness by **8%** through optimized preprocessing.

Anomaly Detection System
- Built a hybrid **CNN + LSTM** deep learning pipeline for video-based anomaly detection.
- Achieved **92% accuracy** in detecting accidents and suspicious movements.
- Improved system efficiency by **15%** using optimized feature extraction and preprocessing.
- Implemented frame-based processing using OpenCV for real-time monitoring.

EDUCATION

Bachelor of Engineering (B.E.) in Computer Science 2020 – 2024
MMEC Belgaum, Karnataka
78%

PUC (PCMCS) 2018 – 2020
MM Integrated PU College Belgaum, Karnataka

Certificates

Data Analysis with Python
Gained hands-on experience in data preprocessing, data visualization, statistical analysis, and Python data libraries (pandas, NumPy, Matplotlib).

Certificate of Training
Trained in ML model development, EDA, and predictive analytics.

Certificate of Internship
Worked on real-world datasets, feature engineering, ML, DL pipelines.