Prasad Shantaram Sangale

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Education

B.E. in Artificial Intelligence & Data Science 2022–2026
S.B. Patil College of Engineering, Indapur — Savitribai Phule Pune University CGPA: 7.90/10

Technical Skills

- **Programming & Data:** Python, SQL, Pandas, NumPy
- **Machine Learning:** Scikit-learn, XGBoost,
- **Deep Learning & NLP:** PyTorch, Transformers
- **MLOps & Engineering:** MLflow, DVC, Git, GitHub Actions, Docker
- **Cloud & Deployment:** AWS (EC2, S3), Streamlit
- **Visualization:** Power BI, Matplotlib

Experience

AWS Trainee Dec 2024 – Jan 2025
Rajavi Technologies Pvt. Ltd., Pune, India

- Gained hands-on experience with AWS services including EC2, S3, and RDS for deploying cloud-based applications.
- Learned to monitor infrastructure performance and optimize resource utilization through guided labs and practical exercises.

Projects

CrowdPulse – Cross-Source NLP Intelligence Platform link

- Architected an end-to-end NLP system integrating Reddit discussions with real-time news data to analyze evolving public narratives.
- Applied DistilBERT for sentiment analysis and FASTopic for scalable topic modeling across heterogeneous text sources.
- Built a semantic embedding pipeline to align related topics between social media discourse and news coverage using similarity-based matching.
- Integrated the Gemini API to generate narrative summaries for cross-source topic interpretation.
- Developed an interactive Streamlit dashboard to visualize sentiment distribution, topic overlap, and narrative insights in near real time.

Customer Churn Prediction System link

- Developed an XGBoost-based classification system to predict customer churn and identify high-risk segments.
- Engineered predictive features and evaluated model performance using ROC-AUC and classification metrics.
- Deployed an interactive Streamlit application and built Power BI dashboards to analyze churn drivers.

Neural Symptom-Based Disease Prediction link

- Built a PyTorch-based neural network to predict top-K probable diseases from patient symptoms.
- Implemented confidence-calibrated predictions to improve inference reliability.
- Designed a Streamlit interface for real-time diagnostic support.