ANIKET SURWADE

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PROFESSIONAL EXPERIENCE

Mentorness | Machine Learning Intern   Oct'23 - Nov'23
*Analysed dataset of **10,000+** customer records for **telecom industry client** to extract outcome-focused insights*
- Developed ML based **customer churn** prediction model, integrated **20+** libraries like **catboost**, **LightGBM**, **XGBoost**
- Performed **exploratory data analysis** (EDA) & **pre-processing** using **Numpy** & **pandas**; resolved **missing values**, **data outliers** for **20+ categorical** & **numerical variables,** ran **feature engineering** to **convert**, **encode** & **scale** variables
- Generated **15+ data visualisations** using **Matplotlib**, **Seaborn** & **Plotly** to plot correlation between customer churn-rate & variables related to **customer demographics**, **subscription details** & **payment history**
- Determined **6 key variables** driving churn rate, observed **26% churn-rate**; identified contract term as most critical variable reporting **~40% increase** in churn-rate as contract term increased from monthly to >2 years
- Implemented & optimized **12+ classification models** with an **84% mean accuracy** using **10+** machine learning & ensemble learning models (**classifiers**) like **LightGBM**, **Gradient Boost** & **Random Forest**
- Deployed **hyperparameter tuning** to **boost accuracy** of lightGBM model to **81%;** evaluated model performance through **AUC-ROC curve** & **10-fold cross-validation**, achieved an **AUC of 0.86**
- Researched & **authored article** on the **transformative role of AI & ML** in shaping **global geo-politics**, focussed on India, Israel-Palestine & China-Taiwan conflicts

Boston Consulting Group | Data Science Intern   Jan'23 - Feb'23
*Analysed dataset of **100,000+** records for USA based **power distribution client** to drive actionable insights*
- Conducted **exploratory data analysis** (EDA) of 30+ features, identified 6 key features using **data visualisation**
- Ascertained **9% churn rate,** processed dataset using **RANSAC**, data imputation, **feature engineering** & data removal to address missing values, standardize data & handle skewness & outliers
- Trained machine learning based model to predict customer churn probability with **~91% accuracy** & **~80% precision**; used 10+ machine learning algorithms & data visualization techniques like **random forest**, **regressions** & **gradient boost**
- Recommended **20% discount** & pricing strategy targeted at **high-value customers** with high churn probability

Strata Analytica | Internship   Sep'21 - Jun'22
Image tagging & *computer vision* project, classified images using *Python*-based image processing techniques
- Developed customized computer vision algorithms to process meaningful features from 5,000+ images
- Achieved **>90% accuracy** of classification by utilizing **OpenCV & scikit-image** libraries
- Improved image classification accuracy by **25%** by fine-tuning computer vision models using **TensorFlow & PyTorch** for **image recognition** in collaboration with **4+** data scientists
- Implemented **metadata extraction** & **keyword assignment** strategies, boosted **image search** capabilities & **data optimization** processes
- Automated **image annotation** & **tagging** process using python-based scripts, led to **30%** reduction in manual efforts

ACADEMIC PROJECTS

Encryption & Decryption of Chaotic Images using Java   Jan'23 – Apr'23
- Developed **encryption** & **decryption** algorithms with **98% data privacy** assurance during image transmission
- Leveraged **Java & JSP/Servlet**; tested algorithm on **1000+** images to affirm robustness in diverse scenarios

Flipkart Review Scrapper Project   Oct'22 – Feb'23
- Designed website to efficiently extract & analyze customer **reviews** using advanced **data scraping** techniques
- Applied natural language processing techniques, achieved 90% accuracy in sentiment analysis of 5,000+ reviews

Insurance Fraud Detection Project   Sep'22 – Nov'22
- Built predictive models using ML algorithms like **logistic regression, XGBoost**; achieved **92% accuracy rate**

Online Cab Service Website Project   Jan'22 – Mar'22
- Designed website using **Python** & **Django**, implemented features for registration, booking, real-time tracking & payments
- Built predictive models using ML algorithms like logistic regression, XG Boost; achieved 92% accuracy rate

EDUCATION

Shram Sadhana Bombay Trust College of Engg. & Technology, Jalgaon, Maharashtra   Aug'23
Bachelor of Engineering, Computer Science - Cumulative GPA: **8.4/10**

CERTIFICATIONS & TECHNICAL SKILLS

Certifications & Training: Data Science Masters (INeuron.Ai), Python (University of Michigan, Coursera)
Technical Skills: Python, C++, MySQL, Java, MongoDB, HTML, and CSS
Data Science and Analytics: Numpy, Pandas, Keras, scikit-learn, PowerBI