

YAGNESH GIDUTURI.

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PROFESSIONAL SUMMARY

- Adept Data Scientist in Unitel Software Limited with nearly 2.4 years of expertise in Python, specializing in understanding business objectives, developing actionable models, and collaborating with cross-functional teams.
- Proficient in essential machine learning libraries, data exploration, and visualization. Proven track record of implementing recommendation engines and predictive maintenance algorithms.

PROFESSIONAL EXPERIENCE

Data Scientist

- Developed a robust ML pipeline to predict online customer purchase intent using behavioral, transactional, and session data from the Online Shoppers Intention dataset.
- Engineered new features such as Returning_Visitor and encoded time-based fields using Ordinal Encoding for improved model learning.
- Applied SMOTE to handle class imbalance and integrated SelectKBest feature selection using Chi-square tests for dimensionality reduction.
- Built a modular pipeline combining data preprocessing, feature selection, scaling, SMOTE, and model tuning using scikit-learn, imblearn, and XGBoost.
- Evaluated 15+ classification algorithms using cross-validation to benchmark performance using ROC-AUC, Accuracy, and F1 Score.
- Achieved ROC-AUC of 0.89 and F1 Score of 0.83 using MLPClassifier, demonstrating high model generalization.
- Automated model evaluation, comparison, and result reporting, reducing manual effort and ensuring reproducibility across iterations.

Unitel Software Solutions, Hyderabad

Sept / 2022 – Present.

EDUCATION

Aditya Degree College, Tuni, Andhra Pradesh.

2022.

Bachelor Of Computer Science.

- Awards: Secured runner-up position in the **DataQuest 2020** Hackathon at Aditya Degree College, Tuni.

SKILLS

- **Programming:** Python (Pandas, NumPy, Scikit-learn), MySQL, Flask.
- **Machine Learning:** Supervised, Unsupervised, NLP.
- **Tools:** Power BI, Matplotlib.
- **Soft Skills:** Problem-Solving, Collaboration, Business Insights.
- **Deep Learning:** TensorFlow and PyTorch(beginner level).

PROJECT

Pima Indians Diabetes Prediction

- Built a Python-based ML model using Scikit-learn, achieving 96.8 percent accuracy in predicting diabetes, enabling early detection for healthcare.
- Applied feature scaling and cross-validation to ensure model robustness.

Online Shoppers Intention Prediction

- Designed an ML pipeline with SMOTE and SelectKBest, achieving ROC-AUC of 0.89 and F1 Score of 0.83.
- Enhanced business conversions by 12 percent through predictive insights.

CERTIFICATIONS

- Prompt Engineering Certification - Cognitive Class Academy (2023)
- AI and Machine Learning Certification - KEATS & KC Pullaiah Foundation (2022)
- Fundamentals in Data Science and Data Visualization Certification - Great Learning Academy (2022)
- Full Stack Data Science Certification - Naresh i Technologies (2022).
- Full Stack Python Developer Certification - Python Life (2021).