

# YAGNESH GIDUTURI.

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## PROFESSIONAL SUMMARY

- Adept Data Scientist in Unitel Software Private 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.

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## 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 (e.g., Random Forest, XGBoost, LightGBM, SVC, MLP) 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 Pvt Ltd., Hyderabad

sept / 2022 – Present.

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## 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.

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## SKILLS

Python, Pandas, NumPy, Matplotlib, Scikit Learn, Machine Learning, Predictive Model Creation, statistics, MySQL, Power BI, NLP.

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## PROJECT

### Key Project: pima - indians diabetes prediction.

Developed a Python-based machine learning model using Scikit-Learn to analyze 1.1 GB of Pima Indians Diabetes data, achieving 96.8% accuracy in predicting diabetes in female patients, enabling early detection and data-driven healthcare strategies.

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## 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).