GOWTHAM R

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Summary

Data-driven enthusiast with robust expertise in data analytics, machine learning, and Python development. Skilled in leveraging analytical tools and machine learning frameworks to drive insights and create predictive models. Adept at collaborating in dynamic environments, with a proven ability to translate data into actionable business strategies. Passionate about innovative data solutions to address real-world challenges.

Education

Bachelor of Engineering in Data Science
Annamalai University, Chidambaram | October 2021 – May 2025 | CGPA: 8.44/10
Relevant Coursework: Data Science, Data Analysis, Machine Learning, Data Visualization, Statistical Methods

Skills

- Programming & Data Manipulation: Python, R, SQL, Excel
- Data Analysis: Data cleaning, preprocessing, exploratory data analysis (EDA)
- Data Visualization: Power BI, Tableau, Matplotlib, Seaborn
- Statistical Methods: Regression, hypothesis testing
- Machine Learning: Scikit-learn, basic knowledge of TensorFlow
- Database Management: MySQL
- Soft Skills: Problem-solving, critical thinking

Internship Experience

Data Science Intern – NEOWEP Software Technology, Dharmapuri | June 2024 – Present

- Developed a real-time gender and age detection system using OpenCV, improving accuracy and response time by 20%.
- Optimized database integration for efficient data storage and retrieval.

Data Science Intern – Academor, Bangalore (Remote) | December 2023 – January 2024

- Built a predictive loan approval model achieving 85% accuracy.
- Applied feature engineering and model evaluation techniques for optimization.

Projects

Sexual Violence Analysis

- Developed a data visualization pipeline to analyze global conflict-related sexual violence trends.
- Used Seaborn & Matplotlib to present actionable insights for policymakers.

Predicting Levels of Damage to Buildings Caused by Earthquake

- Developed a deep learning pipeline to classify earthquake-induced building damage using the 2015 Nepal Earthquake dataset (~25K samples).
- Applied advanced models including CNN, BLSTM, GBNN, TabNet, TabPFN, and NODE to improve prediction accuracy.
- Achieved highest accuracy of 74.10% with TabNet, outperforming traditional and neural models in disaster impact prediction.

Real-Time Gender and Age Detection Using OpenCV

- Built an OpenCV-based computer vision system for real-time gender & age detection.
- Integrated with MySQL, improving data retrieval efficiency by 15%.

Loan Prediction

- Developed a Gradient Boosting model for loan approval prediction (84% accuracy).
- Enhanced model performance through feature engineering & preprocessing.

Customer Insights Dashboard (Retail Sales)

- Created a dynamic Excel dashboard to visualize sales trends and customer behavior.
- Implemented automated calculations & interactive charts for real-time analysis.