

SATYANIDHI GUMMANUR

Data Analyst

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Location: Bangalore

SUMMARY

Analytical Data Analyst and certified Data Scientist skilled in **EDA**, **feature engineering**, and building **machine learning models** (Logistic Regression, Decision Tree, Random Forest, Clustering) using **Python** and **SQL**. Experienced in delivering actionable insights, optimizing data pipelines, and creating interactive dashboards with **Power BI** and **Tableau**. Strong communicator with a proven ability to automate analytics and drive business decisions in team settings.

Eager to leverage analytical expertise and innovative data solutions to drive business growth and exceed organizational goals, delivering measurable value from day one, in the Indian technology sector.

WORK EXPERIENCE

Data Analyst Intern | AI Variant, Bangalore

December 2024 – September 2025

- Collected, cleaned, and transformed complex datasets (~100,000+ records), deriving actionable insights that improved decision-making accuracy by **15%**.
- Performed Exploratory Data Analysis (EDA) using Python (Pandas, NumPy, Matplotlib, Seaborn) to identify key data patterns supporting strategic business initiatives.
- Developed, validated, and deployed machine learning models (Logistic Regression, Decision Trees, Random Forest, Clustering), enhancing predictive accuracy by **20%**.
- Engineered data features and optimized ETL pipelines, reducing processing time by **25%** and boosting model performance.
- Collaborated cross-functionally to translate analytical findings into impactful recommendations, fostering data-driven decision-making.

Programmer Analyst | Cognizant Technology Solutions, Bangalore

September 2023 – May 2024

- Executed manual and automated testing to ensure high-quality software releases, contributing to a **30%** reduction in post-release defects.
- Designed and maintained automated test scripts using Selenium and TestNG, increasing test coverage by **40%** and reducing manual effort.
- Analyzed software requirements, created detailed test cases, and performed rigorous functional and regression testing.
- Identified and resolved critical bugs, improving software stability and user experience.
- Partnered with development teams to implement best testing practices and promote continuous quality improvement.

Mechanical Engineering Intern | Suguna Pumps, Bangalore

Feb 2023 - March 2023

- Designed and developed mechanical components for industrial machinery, ensuring compliance with engineering specifications and enhancing operational efficiency.
- Conducted failure analysis to identify root causes, implementing design improvements that increased product durability by **10%**.
- Collaborated with senior engineers to optimize manufacturing processes, contributing to a **15%** reduction in production time and improved quality control.

KEY PROJECTS

Customer Segmentation | AI Variant

- Collected, cleaned, and prepared extensive customer datasets to enable precise segmentation analysis and extract actionable business insights.
- Conducted comprehensive Exploratory Data Analysis (EDA) using Python (Pandas, NumPy, Matplotlib, Seaborn) to identify key purchasing patterns and demographic segments.
- Applied Gaussian Mixture Model (GMM) clustering for effective customer segmentation, boosting targeted marketing efficiency.
- Assessed clustering quality using Silhouette Score and visualized results with scatter plots and heat maps for clear stakeholder communication.
- Deployed the model through a Streamlit-based interactive dashboard, empowering marketing teams to tailor campaigns in real-time.

Bankruptcy Risk Prediction System | AI Variant

- Collected, cleaned, and preprocessed large financial datasets for bankruptcy risk modeling.
- Performed detailed EDA to identify and validate critical financial predictors influencing bankruptcy outcomes.
- Developed and compared multiple machine learning models, selecting Logistic Regression for its superior accuracy and interpretability.
- Deployed the model via Streamlit, creating an intuitive interface for stakeholders to obtain real-time bankruptcy risk predictions and support decision-making.

Resume Classification | AI Variant

- Collected, cleaned, and preprocessed a dataset of over 10,000 resumes to enable accurate classification for automated recruitment workflows.
- Applied advanced Natural Language Processing (NLP) techniques including tokenization, stemming, and TF-IDF vectorization for effective feature extraction.
- Developed and trained multiple machine learning classifiers such as Logistic Regression, Random Forest, and Support Vector Machines (SVM), achieving over 85% classification accuracy.
- Evaluated model robustness using precision, recall, F1-score, and confusion matrix metrics to ensure reliable resume categorization.
- Deployed the best-performing model with an intuitive user interface to automate resume screening, reducing manual effort by 40% and expediting candidate shortlisting.

Automated Testing Framework | Cognizant Technology Solutions

- Developed and executed automated test scripts using Selenium WebDriver and TestNG frameworks, improving test coverage by 40%.
- Conducted comprehensive manual and functional testing, identifying and logging defects for timely resolution to enhance product quality.
- Collaborated with cross-functional teams to define test plans, prioritize testing activities, and promote best practices in automation.

CORE COMPETENCIES

- **Programming & Scripting Languages :** Python, SQL, Java, C++, C, HTML5, CSS3, AutoCAD, Ansys
- **Data Science & MachineLearning :** Data Manipulation & Analysis: Pandas, NumPy, Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Feature Scaling, Data Wrangling
- **Statistical Methods:** Statistical Analysis, Hypothesis Testing, Probability
- **Machine Learning Algorithms:** Logistic Regression, Decision Trees, Random Forest, XGBoost, Support Vector Machines (SVM), K-Means, Gaussian Mixture Model, DBSCAN, Principal Component Analysis (PCA)
- **Model Evaluation & Validation:** Accuracy, ROC-AUC, Precision, Recall, F1-Score, Confusion Matrix, Cross-Validation
- **Data Visualization & Reporting:** Power BI, Tableau, Matplotlib, Seaborn, Interactive Dashboards
- **Software Testing & Quality Assurance -**
 1. **Testing Types:** Manual Testing, Functional Testing, Regression Testing, Smoke Testing, Automation Testing
 2. **Test Automation Frameworks & Tools:** Selenium WebDriver, TestNG, Postman
 3. **Continuous Integration & Deployment (CI/CD):** Jenkins, Maven, Git, Docker
 4. Test Planning, Test Case Design, Test Execution, Defect Tracking, Bug Reporting, Automation Framework Development, API Testing

EDUCATION

Bachelor of Engineering in Mechanical Engineering

CMR Institute of Technology, Bangalore

- Engineering Mathematics, Statistics, Computer Programming, Data Structures, Machine Design, Manufacturing Processes

Pre-University Course

National Center for Excellence PU College, Bangalore

CERTIFICATIONS & TRAINING

- **Data Science Professional Certificate – ExcelR Solutions**
- **Python Programming Certification – Besant Technologies**
- **Certified Selenium Automation Tester – Java Programming with Cucumber & Frameworks**
- **AutoCAD Professional Certification – Autodesk**