SANDHIP R

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SUMMARY

Data Science and AI graduate with hands-on experience in data analysis, exploratory data analysis (EDA), and machine learning to transform raw data into actionable insights. Strong foundation in SQL, Python, and data visualization with exposure to cloud-based data systems for scalable analytics. Proven ability to handle from data collection and preprocessing to modeling, reporting, and deployment to support business decision-making.

EDUCATION

Bachelor of Technology - Computer Science (Data Science & AI) | CGPA: 8.12   2021 - 2025
   Hindustan Institute of Technology and Science, Chennai, India.

SKILLS

Languages: Python, SQL

Frameworks & Libraries: Pandas, Numpy, Matplotlib, Tensorflow, Shap, Streamlit

Data Analysis & Visualizations: PowerBI, Excel

Cloud & Tools: AWS, GitHub, Jupyter Notebook

AI/ML Skills: Logistic Regression, Random Forest, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation, Descriptive Statistics, Machine Learning, Predictive Analysis, Artificial Intelligence Tools.

PROFESSIONAL EXPERIENCE

Data Science Intern – GradTwin   **Dec 2025 – Feb 2026**

Exploratory Data Analysis: Conducted in-depth EDA on customer and sales datasets to identify data quality issues, uncover trends, and understand key drivers influencing business performance and customer behavior.

Visualization: Designed interactive Power BI dashboards to present sales performance, revenue trends, and customer insights, enabling data-driven decision-making for business stakeholders.

Data Preprocessing & Feature Engineering: Cleaned, transformed, and engineered relevant features using Python and SQL to prepare datasets for machine learning models, improving model accuracy and reliability.

Machine Learning Modeling: Built and evaluated predictive models such as Logistic Regression for customer churn prediction, applying statistical techniques to interpret results and generate actionable insights.

Artificial Intelligence Intern – ReTech Solutions Limited   **Dec 2023 - Dec 2023**

Machine Learning & Deep Learning Implementation: Developed, trained, and optimized ML and deep learning models using Python frameworks to solve real-world prediction and classification problems.

Natural Language Processing & AI Systems: Implemented NLP pipelines including text vectorization, semantic search, and model-based inference to support intelligent applications.

Model Deployment & Integration: Assisted in integrating trained AI models into production-like environments and applications, ensuring reliable inference and performance.

PROJECTS

Customer Churn Prediction & Retention Strategy

- Developed a predictive analytics solution to identify high-risk customers by performing comprehensive exploratory data analysis (EDA) to uncover behavioural patterns and churn drivers.

- Built, trained, and evaluated a Logistic Regression model to accurately predict churn probability and assess model performance using statistical metrics.

- Translated model outputs into actionable business retention strategies, enabling targeted interventions to improve customer loyalty and reduce churn.

Technical Skills: Python, Pandas, Statistics, Machine Learning, Exploratory Data Analysis

AI – Powered Smart Data Quality & AutoML Platform

- Built an intelligent data analysis system to automatically assess data quality, preprocess datasets, and generate actionable insights through machine learning workflows.
- Engineered an automated model training pipeline with feature importance visualization and Explainable AI (SHAP) for transparent performance evaluation.
- Integrated an interactive AI assistant to guide users on model selection, optimization strategies, and predictive improvements.

Technical Skills: Python, Streamlit, Scikit-learn, AutoML, SHAP, Data Analysis, Machine Learning, AI Chatbot