

SANJAY K

sjai58066@gmail.com | 9342321886 | <https://sanjay-webportfolio.netlify.app/> | www.linkedin.com/in/sanjayk1415

EDUCATION

Panimalar Engineering College

Chennai, Tamil Nadu

Expected: May 2025

Bachelor of Engineering in Computer Science, CGPA: 8.6

- Honors & Awards: Government Scholarship (₹25,000)
- Relevant Coursework: AI & Machine Learning, Probability & Discrete Mathematics, Data Structures & Algorithms, Computer Architecture, Cloud Computing and Big Data, Computer Network, Operating System, Ethical Hacking

Certifications Machine Learning Specialization, Data Analytics with Python, Artificial Intelligence for real world application

PROFESSIONAL EXPERIENCE

INTERNSAAVY

August, 2023 - September, 2023

Data Analytics Intern

Remote

- Analyzed customer behavior data to identify key trends, improving targeted marketing strategies and boosting campaign ROI by 15%.
- Implemented machine learning models for school enrollment prediction, achieving a 92% accuracy rate and aiding in resource allocation planning.
- Created interactive dashboards using Python and SQL to support executive decision-making, reducing report preparation time by 20%.
- Conducted A/B testing on website features, resulting in a 10% increase in user engagement and enhanced user experience.
- Automated data collection processes using Python scripts, streamlining data pipelines and reducing manual effort by 30%.

PROJECTS

[Stock Market Prediction | Python/Git](#)

- Built an S&P 500 stock price prediction model: developed a model that predicts stock values by utilizing previous market data. included a variety of metrics to improve prediction accuracy, including volatility indices and moving averages.
- Using machine learning algorithms, forecasts were made using the RandomForestClassifier. To assess the effectiveness of the model, a comparison between expected and actual stock prices was made.
- Streamlined data processing and feature engineering: By streamlining data processing pipelines and creating pertinent features from the raw data, predictions were more reliable.
- Extensive backtesting and validation: Backtesting methods were used to confirm the model's functionality throughout various time frames. tested the model on data that was not in the sample to ensure its robustness.

[California Housing Predictions](#)

- Developed a Regression Model: Built a machine learning model to predict housing prices in California using the California Housing dataset. This involved implementing regression models such as linear regression and decision trees.
- Data Pretreatment: Conducted comprehensive data preprocessing, including feature scaling, handling missing values, and addressing outliers to ensure the dataset was suitable for modeling.
- Feature Engineering: Extracted and engineered key features such as median income, housing age, and room count to enhance model performance and capture essential predictors of housing prices.
- Model Comparison: Compared the performance of different regression models to identify the most accurate and robust model for predicting median house values based on the dataset characteristics.

[Election 2024 Poll Analysis | Tableau](#)

- Designed an interactive dashboard to analyze campaign spending trends for the 2024 election.
- Visualized data to highlight states with the highest funding, revealing potential influences on voter behavior.
- Enabled strategic resource allocation insights for political parties to optimize electoral impact.

SKILLS

- Languages: Python (Matplotlib, Seaborn, Sklearn, Tensorflow), R (dplyr, tidyr, ggplot2, shiny), SQL, Java, C++, SAS, MATLAB
- Analysis Techniques: Logistic Regressions, Decision Trees, Neural Networks, Random Forests, Hypothesis Testing, A/B Testing
- Tools: Git, Kaggle, R Markdown, Jupyter, PyCharm, RStudio, VSCode, ArcGIS, SPSS, Tableau, Excel

Certification

Oracle Certified Foundation Associate