

# SANJAY K

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## Education

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### Panimalar Engineering College

Bachelor of Engineering in Computer Science,

May 2025

CPGA:8.54

- Honors & Awards: Merit-Based Scholarship (₹25,000)
- Relevant Coursework: AI & Machine Learning, Probability & Discrete Mathematics, Data Structures & Algorithms, Cloud Computing and Big Data

## Work Experience

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### INTERNSAAVY

Data Analytics Intern

Aug 2023 - Sep 2023

- Analyzed customer behavior using big data technologies, improving targeted marketing and increasing campaign **ROI by 15%**.
- Built machine learning models for school **enrollment prediction with 92% accuracy**, aiding resource planning.
- Developed interactive dashboards with Python and SQL, **reducing report preparation time by 20%**.

### Preplnsta

Data Analytics Intern

Jun 2024 – Sep 2024

- Worked on analytics projects using Tableau, machine learning, and EDA to extract insights from datasets.
- **Collaborated in a team of four**, leveraging diverse skills for innovative problem-solving.
- Gained hands-on experience with real datasets, enhancing both technical and soft skills.

## Projects

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

- Developed an S&P 500 stock prediction model using historical data, incorporating volatility indices and moving averages to improve accuracy.
- Used the **Random Forest Classifier** for stock price forecasts, achieving **93.5% accuracy** by comparing predicted and actual prices.
- Streamlined data processing and feature engineering by optimizing pipelines and creating relevant features, improving prediction reliability

### California Housing Predictions | [Git](#)

- Built a regression model using the California Housing dataset, implementing **linear regression and decision trees to predict housing prices**.
- Conducted data preprocessing, including **feature scaling**, handling missing values, and outlier detection, along with data visualization for insights.
- Engineered key features like median income, housing age, and room count, and **compared model performances to identify the most accurate predictor**.

### Election 2024 Poll Analysis

- Used spreadsheets and programming languages to organize and analyze election campaign data.
- Designed an interactive dashboard to analyze campaign spending trends for the 2024 general election in India.
- 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

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**Languages:** SQL, Python, R, Java, C

**Analysis Techniques:** Logistic Regressions, Decision Trees, Neural Networks, Random Forests, Hypothesis Testing, A/B

Testing

Tools: Git, Kaggle, R Markdown, Jupyter, PyCharm, RStudio, VSCode, Tableau, Excel

**Big Data Technologies:** Hadoop

**Machine Learning Frameworks:** TensorFlow, PyTorch

Certification

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[Git-Hub Foundation Certification](#)

[Oracle Certified Foundation Associate](#)

[Machine Learning Specialization](#)

[Data Analytics with Python](#)

[Artificial Intelligence for real world application](#)