

# Raj Samrendra Kumar

Mumbai, India

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## SUMMARY

Aspiring Data Scientist and Machine Learning enthusiast currently pursuing B.Tech in Computer Science (3rd Year). Experienced in building and deploying ML and Data Science models using Python, scikit-learn, and related tools. Skilled in data preprocessing, feature engineering, model evaluation, and visualization to extract actionable insights. Passionate about transforming data into meaningful solutions and continuously learning new techniques in AI, analytics, and cloud-based workflows.

## WORK EXPERIENCE

### Data Science Intern

March 2024 - June 2024

#### Genz Educate Wing

- Built and deployed two machine learning models (Linear Regression and Logistic Regression) to predict outcomes using publicly available datasets from Kaggle.
- Performed data cleaning, exploratory data analysis (EDA), and feature engineering to improve model performance.
- Evaluated model accuracy using appropriate metrics and optimized hyperparameters to enhance prediction results.
- Documented insights and findings to assist in data-driven decision-making processes.
- Collaborated with the team to understand project requirements and deliver actionable results within deadlines.

## PROJECTS

### Bangalore Zomato Restaurant Data Analysis & Power BI | [Power BI](#) | [GitHub](#) 2024

- Collected the Bangalore restaurant dataset from Kaggle and performed in-depth data visualization using Power BI.
- Designed and implemented an 8-page interactive dashboard featuring charts and graphs for dish-wise sales, customer ratings, pricing trends, locations, cuisines, and customer reviews.
- Analyzed patterns to identify the most popular dishes and derive actionable insights for restaurant business strategies.

### Predictive Analytics for Breast Cancer Diagnosis | [Python Libraries, ML, Neural Network](#) | [GitHub](#) 2025

- Engineered a robust data preprocessing pipeline (handling missing values, encoding, scaling) to improve model generalization and reduce bias.
- Developed and fine-tuned a Multilayer Perceptron (MLP) Neural Network for tumor classification, leveraging hyperparameter optimization.
- Achieved **98% prediction accuracy** on unseen test data, validating strong model reliability and real-world applicability.
- Conducted exploratory data analysis (EDA) to identify significant predictors of malignancy, enabling deeper clinical insights.

- Architected a comprehensive data preprocessing pipeline for financial time-series data, incorporating cleaning, normalization, and feature engineering to enhance predictive accuracy.
- Implemented and optimized a **Random Forest Classifier** for stock price movement prediction, mitigating overfitting through hyperparameter tuning and cross-validation.
- Assessed model performance with precision, recall, F1-score, and confusion matrix, ensuring robustness and interpretability in financial forecasting tasks.
- Conducted advanced **EDA and visualization (Matplotlib)** to identify market patterns, correlations, and feature importance, enabling data-driven trading insights.

## EDUCATION

Parul Institute Of Engineering and Technology

August 2023 – June 2027

CGPA: 8.02/10

B. Tech in Computer Science and Engineering (Specialization in Data Science)

## SKILLS

Languages: Python, Java, C, HTML, CSS

Frameworks: TensorFlow Lite, Scikit-Learn, Flask, SQLAlchemy, SQLite

DevTools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Postman, Docker

Libraries: NumPy, Pandas, Matplotlib, TensorFlow, Keras, Scikit-Learn, Computer Vision, Plotly, SciPy

## ACHIEVEMENTS AND CERTIFICATIONS

Achieved the following certifications:

• Microsoft Certified: Azure Fundamentals (AZ-900)	2024
<a href="#">View Certificate</a>	
• Microsoft Certified: Azure AI Fundamentals (AI-900)	2024
<a href="#">View Certificate</a>	
• Microsoft Certified: Power Platform Fundamentals (PL-900)	2024
<a href="#">View Certificate</a>	
• Microsoft Certified: Azure Data Scientist Associate (DP-100)	2024
<a href="#">View Certificate</a>	
• Microsoft Certified: Azure AI Engineer Associate (AI-102)	2025
<a href="#">View Certificate</a>	
• Microsoft Certified: Fabric Data Engineer Associate (DP-700)	2025
<a href="#">View Certificate</a>	
• Oracle Cloud Infrastructure Data Science Professional	2025
<a href="#">View Certificate</a>	
• Oracle Cloud Infrastructure Generative AI Professional	2025
<a href="#">View Certificate</a>	

Teaching Assistant – Parul Institute of Engineering and Technology

Professional Communication Skills, Academic Assistance

- Served as **Technical Assistant for English Speaking**, providing guidance, support, and practice sessions to enhance students’ spoken English proficiency.